INTERNATIONAL STANDARD



Second edition 2005-03

Standard data element types with associated classification scheme for electric components –

Part 4: IEC reference collection of standard data element types and component classes



Reference number IEC 61360-4:2005(E)

Publication numbering

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Commission Electrotechnique Internationale International Electrotechnical Commission Международная Электротехническая Комиссия



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

STANDARD DATA ELEMENT TYPES WITH ASSOCIATED CLASSIFICATION SCHEME FOR ELECTRIC COMPONENTS –

Part 4: IEC reference collection of standard data element types and component classes

FOREWORD

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International Standard IEC 61360-4 has been prepared by subcommittee 3D: Data sets for libraries of IEC technical committee 3: Information structures, documentation and graphical symbols.

This second edition cancels and replaces the first edition published in 1997. This second edition contains all data element type and class definitions from the first edition with an updated classification scheme and new definitions in the area of:

- a) the geometrical characteristics of the shapes of components, including figures and drawings;
- b) the characteristics for semiconductor die;
- c) data element types originating from the JEITA dictionary in Japan.

It establishes a classification and coding system of shapes for package outlines of electric and electromechanical components according to key geometrical characteristics.

The object of this addition to the standard is to define the information required on the shapes of components :

- for the design of component lands, footprints and piercing drawings;
- for determining the space occupied;
- for deriving dimensions and tolerances needed for automatic handling by inserters and onserters;
- to provide a classification scheme for the purposes of retrieval, selection and comparison of component shapes;
- to establish a coding system for identification of component package outlines;
- to provide a set of reference drawings for defining shape, size and relative position of the component body, mounting features, terminals and adjusters;
- to provide a set of data element type definitions for geometrical parameters in computersensible form.

This second edition extends the classification scheme and DET definitions with unpackaged and minimally packaged semiconductor die, with or without connection structures. It is a data specification which defines the requirements for

- product identity;
- product data;
- die mechanical information;
- test, quality and reliability information;
- handling, storage and mounting information;
- thermal data and electrical simulation data.

This second edition extends the classification and DET definitions with new entries originating from the JEITA dictionary, Japan.

The text of this standard is based on the following documents:

FDIS	Report on voting
3D/134/FDIS	3D/136/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

IEC 61360 consists of the following parts, under the general title *Standard data element types with associated classification scheme for electric components*:

- Part 1: Definitions Principles and methods
- Part 2: EXPRESS Dictionary schema
- Part 3: Maintenance and validation procedures
- Part 4: IEC reference collection of standard data element types and component classes
- Part 5 Extensions to the EXPRESS dictionary schema

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

INTRODUCTION

The contents of this docment is in line with the current contents of the IEC online 61360 Component Data Dictionary.

- a) The complete classification scheme is given in Annex A.
- b) The new/amended data element types with their identifier, as listed below, are given in Annex C.

AAD001-001	AAD089-001	AAE000-001	AAG026-001	AAG074-001
AAD002-001	AAD090-001	AAE002-006	AAG027-001	AAG075-001
AAD003-001		AAE003-006	AAG028-001	AAG076-001
AAD004-001	AAD093-001	AAE004-007	AAG029-001	AAG077-001
			AAG030-001	
		AAE349-006	AAG031-001	
		AAE349-000 AAE351 006	AAG032 001	
		AAE545 006	AAG032-001	AAG000-001
		AAE545-000	AAG033-001	AAG001-001
AAD009-001	AAD110-001	AAE010-003	AAG034-001	AAG002-001
AAD010-001	AAD119-001		AAG035-001	AAG003-001
AAD011-001	AAD120-001	AAE070-005	AAG036-001	AAG004-001
AAD012-001	AAD121-001		AAG037-001	AAG085-001
AAD013-001	AAD122-001	AAF101-006	AAG038-001	AAG086-001
AAD014-001	AAD123-001	AAF311-007	AAG039-001	AAG087-001
AAD015-001	AAD124-001	AAF390-002	AAG040-001	AAG088-001
AAD016-001	AAD125-001	AAF464-001	AAG041-001	AAG089-001
AAD017-001	AAD126-001	AAF465-001	AAG042-001	AAG090-001
AAD018-001	AAD127-001	AAF466-001	AAG043-001	AAG091-001
AAD019-001	AAD129-001	AAF467-001	AAG044-001	AAG092-001
AAD020-001	AAD130-001	AAF468-001	AAG045-001	AAG093-002
AAD021-001	AAD131-001	AAF469-001	AAG046-001	AAG094-002
AAD022-001	AAD132-001		AAG047-001	AAG095-001
AAD023-001	AAD133-001	AAG000-001	AAG048-001	AAG096-001
AAD024-001	AAD134-001	AAG001-001	AAG049-001	AAG097-001
AAD025-001	AAD137-001	AAG002-001	AAG050-001	AAG098-001
AAD026-001	AAD140-001	AAG003-001	AAG051-001	AAG099-001
AAD027-001	AAD141-001	AAG004-001	AAG052-001	AAG100-001
AAD028-001	AAD142-001	AAG005-001	AAG053-001	AAG101-001
AAD029-001	AAD143-001	AAG006-001	AAG054-001	AAG102-001
AAD030-001	AAD144-001	AAG007-001	AAG055-001	AAG103-001
AAD031-001	AAD145-001	AAG008-001	AAG056-001	AAG104-001
AAD032-001	AAD146-001	AAG009-001	AAG057-001	AAG105-001
AAD033-001	AAD147-001	AAG010-001	AAG058-001	AAG107-001
AAD049-001	AAD148-001	AAG011-001	AAG059-001	AAG108-001
AAD054-001	AAD149-001	AAG012-001	AAG060-001	AAG109-001
AAD055-001	AAD150-001	AAG013-001	AAG061-001	AAG110-001
AAD056-001	AAD151-001	AAG014-001	AAG062-001	AAG111-001
AAD060-001	AAD153-001	AAG015-001	AAG063-001	AAG112-001
AAD070-001	AAD154-001	AAG016-001	AAG064-001	AAG113-001
AAD071-001	AAD155-001	AAG017-001	AAG065-001	AAG114-001
AAD072-001	AAD156-001	AAG018-001	AAG066-001	AAG115-001
AAD078-001	AAD157-001	AAG019-001	AAG067-001	AAG116-001
AAD081-001	AAD158-001	AAG020-001	AAG068-001	AAG117-001
AAD082-001	AAD159-001	AAG021-001	AAG069-001	AAG118-001
AAD085-001	AAD160-001	AAG022-001	AAG070-001	AAG119-001
AAD086-001		AAG023-001	AAG071-001	ΔΔG120-001
AAD087-001		AAG024-001	ΔΔG072-001	
	7010102-001	AAG025-001	ΔΔG073-001	ΔΔC122-001
		1010020 001		

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AAG123-001	AAJ020-001	AAJ046-001	AAJ073-001	AAJ100-001
AAG124-001	AAJ021-001	AAJ047-001	AAJ074-001	AAJ101-001
AAG125-001	AAJ022-001	AAJ048-001	AAJ075-001	AAJ102-001
AAG129-001	AAJ023-001	AAJ049-001	AAJ076-001	AAJ103-001
AAG130-001	AAJ024-001	AAJ051-001	AAJ077-001	AAJ104-001
AAG131-002	AAJ025-001	AAJ052-001	AAJ078-001	AAJ105-001
AAG133-002	AAJ026-001	AAJ053-001	AAJ079-001	AAJ106-001
AAH005-001	AAJ027-001	AAJ054-001	AAJ080-001	AAJ107-001
	AAJ028-001	AAJ055-001	AAJ081-001	AAJ108-001
AAJ001-001	AAJ029-001	AAJ056-001	AAJ082-001	AAJ109-001
AAJ002-001	AAJ030-001	AAJ057-001	AAJ083-001	AAJ110-001
AAJ003-001	AAJ031-001	AAJ058-001	AAJ084-001	AAJ111-001
AAJ004-001	AAJ032-001	AAJ059-001	AAJ085-001	AAJ112-001
AAJ006-002	AAJ033-001	AAJ060-001	AAJ086-001	AAJ113-001
AAJ007-001	AAJ034-001	AAJ061-001	AAJ087-001	AAJ114-001
AAJ008-001	AAJ035-001	AAJ062-001	AAJ088-001	AAJ115-001
AAJ009-001	AAJ036-001	AAJ063-001	AAJ089-001	AAJ116-001
AAJ011-001	AAJ037-001	AAJ064-001	AAJ090-001	AAJ117-001
AAJ012-002	AAJ038-001	AAJ065-001	AAJ091-001	AAJ118-001
AAJ013-001	AAJ039-001	AAJ066-001	AAJ092-001	AAJ119-001
AAJ014-001	AAJ040-001	AAJ067-001	AAJ093-001	AAJ120-001
AAJ015-001	AAJ041-001	AAJ068-001	AAJ094-001	AAJ121-001
AAJ016-001	AAJ042-001	AAJ069-001	AAJ095-001	AAJ122-001
AAJ017-001	AAJ043-001	AAJ070-001	AAJ096-001	AAJ123-001
AAJ018-001	AAJ044-001	AAJ071-001	AAJ098-001	AAJ124-001
AAJ019-001	AAJ045-001	AAJ072-001	AAJ099-001	

c) The new/amended classes with their identifier, as listed below, are given in Annex B.

AAA000-001	AAA307-001	AAA349-001	AAA384-001	AAA420-001
AAA002-003	AAA308-001	AAA350-001	AAA385-001	AAA421-001
AAA021-003	AAA309-001	AAA351-001	AAA386-001	AAA422-001
AAA026-002	AAA311-001	AAA352-001	AAA387-001	AAA423-001
AAA031-002	AAA312-001	AAA353-001	AAA388-001	AAA424-001
AAA056-002	AAA313-001	AAA354-001	AAA389-001	AAA426-001
AAA074-002	AAA314-001	AAA355-001	AAA390-001	AAA427-001
AAA077-002	AAA318-001	AAA356-001	AAA391-001	AAA428-001
AAA089-002	AAA319-001	AAA357-001	AAA392-001	AAA429-002
AAA092-001	AAA320-001	AAA358-001	AAA393-001	AAA430-002
AAA093-002	AAA322-001	AAA359-001	AAA394-001	AAA431-002
AAA096-002	AAA323-001	AAA360-001	AAA395-001	AAA432-002
AAA098-002	AAA324-001	AAA361-001	AAA396-001	AAA433-002
AAA100-003	AAA325-001	AAA362-001	AAA397-001	AAA434-002
AAA102-002	AAA326-001	AAA363-001	AAA398-001	AAA435-001
AAA115-002	AAA327-001	AAA364-001	AAA399-001	AAA436-001
AAA147-003	AAA328-001	AAA365-001	AAA400-001	AAA437-001
AAA148-002	AAA329-001	AAA366-001	AAA401-001	AAA438-001
AAA149-002	AAA330-001	AAA367-001	AAA402-001	AAA439-001
AAA174-002	AAA332-001	AAA368-001	AAA403-001	AAA440-001
AAA218-002	AAA333-001	AAA369-001	AAA404-001	AAA441-001
AAA229-001	AAA334-001	AAA370-001	AAA405-001	AAA442-001
AAA230-001	AAA335-001	AAA371-001	AAA406-001	AAA443-001
AAA231-001	AAA336-001	AAA372-001	AAA407-001	AAA444-001
AAA232-001	AAA337-001	AAA373-001	AAA408-001	AAA445-001
AAA295-001	AAA339-001	AAA374-001	AAA409-001	AAA446-001
AAA296-001	AAA340-001	AAA375-001	AAA410-001	AAA447-001
AAA297-001	AAA341-001	AAA376-001	AAA411-001	AAA448-001
AAA298-001	AAA342-001	AAA377-001	AAA412-001	AAA449-001
AAA299-001	AAA343-001	AAA378-001	AAA413-001	AAA450-001
AAA301-001	AAA344-001	AAA379-001	AAA414-001	AAA451-002
AAA302-001	AAA345-001	AAA380-001	AAA415-001	AAA452-001
AAA303-001	AAA346-001	AAA381-001	AAA417-001	AAA453-002
AAA304-001	AAA347-001	AAA382-001	AAA418-001	AAA454-001
AAA305-001	AAA348-001	AAA383-001	AAA419-001	AAA455-001

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AAA456-001	AAA525-001	AAA550-001	AAA579-001	AAA597-001
AAA501-001	AAA526-001	AAA551-001	AAA580-001	AAA601-001
AAA502-001	AAA527-001	AAA554-001	AAA581-001	AAA602-001
AAA503-001	AAA528-001	AAA555-001	AAA582-001	AAA603-001
AAA504-001	AAA536-001	AAA556-001	AAA583-001	AAA604-001
AAA505-001	AAA537-001	AAA557-001	AAA584-001	AAA605-001
AAA509-001	AAA538-001	AAA561-001	AAA585-001	AAA606-001
AAA510-001	AAA539-001	AAA562-001	AAA586-001	AAA607-001
AAA511-001	AAA540-001	AAA563-001	AAA587-001	AAA608-001
AAA512-001	AAA541-001	AAA564-001	AAA588-001	AAA609-001
AAA513-001	AAA542-001	AAA565-001	AAA589-001	AAA610-001
AAA514-001	AAA543-001	AAA566-001	AAA590-001	AAA611-001
AAA516-002	AAA544-001	AAA569-001	AAA591-001	AAA612-001
AAA517-001	AAA545-001	AAA572-001	AAA592-001	AAA613-001
AAA518-001	AAA546-001	AAA573-001	AAA593-001	
AAA522-001	AAA547-001	AAA575-001	AAA594-001	
AAA523-001	AAA548-001	AAA576-001	AAA595-001	
AAA524-001	AAA549-001	AAA578-001	AAA596-001	

d) The new/amended drawings with their identifier, as listed below, are given in Annex D.

DAA001-001	DAA012-001	DAA023-001	DAA034-001	DAA045-001
DAA002-001	DAA013-001	DAA024-001	DAA035-001	DAA046-002
DAA003-001	DAA014-001	DAA025-002	DAA036-001	DAA047-001
DAA004-001	DAA015-001	DAA026-002	DAA037-001	DAA048-002
DAA005-001	DAA016-001	DAA027-002	DAA038-001	DAA049-001
DAA006-001	DAA017-001	DAA028-002	DAA039-001	DAA050-001
DAA007-001	DAA018-001	DAA029-002	DAA040-001	DAA051-001
DAA008-001	DAA019-001	DAA030-002	DAA041-001	
DAA009-001	DAA020-001	DAA031-001	DAA042-001	
DAA010-001	DAA021-001	DAA032-001	DAA043-001	
DAA011-001	DAA022-001	DAA033-001	DAA044-001	

e) The new/amended figures with their identifier, as listed below, are given in Annex E.

DAE001-001	DAE004-001	DAE012-001	DAE042-001
DAE002-001	DAE005-001	DAE021-001	DAE092-001
DAE003-001	DAE009-001	DAE040-001	DAE119-001

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STANDARD DATA ELEMENT TYPES WITH ASSOCIATED CLASSIFICATION SCHEME FOR ELECTRIC COMPONENTS –

Part 4: IEC reference collection of standard data element types and component classes

1 General

1.1 Scope and object

This part of IEC 61360 specifies within two dictionaries:

- the definitions of data element types for electric components and materials used in electrotechnical equipment and systems;
- the definitions of the component classes with associated classification scheme.

These definitions are related to electric components including electronic and electromechanical components and materials used in electrotechnical equipment and systems.

The object of this standard is to provide a set of uniquely-identified data element types with

- an unambiguously defined meaning;
- a defined value format, and
- a prescribed value domain for the non-quantitative data element types.

The classification scheme for components, the component class definitions (whereby the relevant and the valid characteristic properties by specific data element types are assigned to each class of components) are used to define the data element types unambiguously and to make the entire set of data element types manageable.

The collection of data element types from this standard are meant for use in computerized systems for component selection and component management, parts list processing and computer-aided design, -manufacturing and -testing

1.2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050(702): 1992, International Electrotechnical Vocabulary – Chapter 702: Oscillations, signals and related devices

IEC 60191-4:1999, Mechanical standardization of semiconductor devices – Part 4: Coding system and classification into forms of package outlines for semiconductor device packages

IEC 61360-1: 2002, Standard data element types with associated classification scheme for electric components – Part 1: Definitions – Principles and methods

ES 59008-1, Data requirements for semiconductor die – Part 1: General requirements

ES 59008-2, Data requirements for semiconductor die – Part 2: Vocabulary

ES 59008-3, Data requirements for semiconductor die – Mechanical, material and connectivity requirements

ES 59008-4 (all parts), *Data requirements for semiconductor die – Specific requirements and recommendations*

ES 59008-5 (all parts), Data requirements for semiconductor die – Particular requirements and recommendations for die types

ES 59008-6-1, Data requirements for semiconductor die – Part 6-1: Exchange data formats and data dictionary – Data exchange – DDX file format

2 Terms and definitions

For the purposes of this document, the terms and definitions as given in clause 2 of IEC 61360-1, the terms and definitions of ES 59008-2 as well as the following apply.

2.1

shape

external form of a component package as given by the set of data element types

2.2

seating plane

theoretical plane of an electric component that coincides with the surface of the board if the component rests in its intended mounted position on the board

NOTE 1 This is often used as the reference plane.

NOTE 2 Not all components have a seating plane.

2.3

terminal

conductor that serves to connect a device electrically and/or mechanically with its environment

2.4

terminal form

form of a terminal of a package

2.5

terminal position

alignment of the physical position of the ends of the terminals of a component package

2.6

outline style

physical information enclosing the apparently plane figure presented by any object in sight, contour and/or external boundary of a component

2.7

true

qualifies the ideal value which characterises a quantity perfectly defined in the conditions which exist at the moment at which that quantity is observed, or the subject of a determinal

NOTE This value could be arrived at only if all causes of measurement error were eliminated and the population was infinite. In the case of a finite population, the complete population must be considered.

2.8

true value

value which characterises a quantity perfectly defined, in the conditions which exist when that value is examined

NOTE The true value of a quantity is an ideal concept and, in general, it cannot be known.

2.9

package

enclosure for one or more chips, film elements or other components, that allows electrical connection and provides mechanical and environmental protection

2.10

case

enclosure for one or more chips, film elements or other components, that allows mechanical connection and provides mechanical and environmental protection

2.11

mounting hole

hole in a mounting structure for mechanical connection and support

2.12

mounting socket

connector which intends to provide electrical and mechanical support for a component inserted into it

3 Maintenance and validation methodology

The collection of entities as defined in this standard is a dynamic collection which needs actively to be maintained.

IEC 61360-3 specifies the procedures that shall be followed by the validation agency and the maintenance agency of the IEC vocabulary of standard technical data element types with associated classification scheme and component classes as defined by this classification scheme.

4 How to read the annexes

4.1 Classification tree

In Annex A, the complete classification tree is given. Under the header '**Class**', the identifier of the class at that specific line is given, while under the header '**Class. DET**', on that line the identifier of the classifying data element type is given that has been used to define that class.

If relevant, under the header '**Drawing**' the identifier of the drawing related to the indicated '**Class'** is given.

4.2 Classes

For the classification of components² the principle of dividing the whole set of components into parts has been applied repeatedly, thereby creating a hierarchical tree of several levels of classes.

The goal of this classification scheme of components is to arrange the data element types in an unambiguous-structured way. A detailed description of the classification principles and the various attributes of the component class definitions are given in IEC 61360-1.

The various attributes of the component classes and the layout as used in this standard are explained with the aid of Figure 1a and Figure 1b. The class definitions are given in Annex B.

² The classification principles are also applicable to other entities like materials, packages, geometries, etc.

6 — A set of cylindrical package outline styles of which each outline style can be described with the same set of data element types.

7 NOTE

5 -

CYLINDRICAL is a package style in which the body is cylindrical with the length no smaller than the diameter.

8 — AAG056-001 terminal position code

Subclasses	
AAA325-001	axial leads
AAA326-001	bottom leads
 AAA327-001	end connections
AAA328-001	radial leads
AAA329-001	uppers connections
	Subclasses AAA325-001 AAA326-001 AAA327-001 AAA328-001 AAA329-001

Figure 1a

1	2	2	3	
AAA4	52-0	01	01	

5 — clamp mount package

B005

A set of clamp-mount cylindrical package outline styles with
screw terminals in standard form on the upper surface of which each outline style can be described with the same set of data element types.

11 — DAA047-001

Properties

AAG001-001	seated height
AAG008-001	terminal width
AAG012-001	terminal thickness
10 AAG014-001	package diameter
AAG017-001	terminal spacing
AAG092-001	package height zone
AAG094-001	terminal thread diameter
AAG097-001	terminal thread
12—— IEC*****	

Figure 1b

- 1 Code
- 2 Version number
- 3 Revision number
- 4 Coded name
- 5 Preferred name
- 6 Definition
- 7 Note
- 8 Classifying data element type
- 9 Subclasses, identifier + preferred name
- 10 Applicable data element types, identifier + preferred name
- 11 Drawing reference, identifier
- 12 Source document of package class definition

Figure 1 – Component package class specification attributes

For the classification of the shapes of package outlines, the following three characteristics of the package according to the codes defined in IEC 60191-4 are used:

- outline style ;
- terminal position;
- terminal form.

Following these characteristics, four or five levels of classification are then defined. The codes used are given as informative annexes to this standard as follows :

- Clause G.1: level 1 : identified by the outline style codes from Table G.1;
- Clause G.2: level 2: identified by the terminal position codes from TableG.2;
- Clause G.3: level 3 : identified by the terminal form codes from Table G.3;
- Clause G.4 level 4 : identified by the terminal variant codes from Table G.4; and
- Clause G.5: level 5: (optional) identified by the body variant codes from Table G.5.

4.3 Data element types

Various attributes of the data element types and the layout as used in this standard are explained with the aid of Figure 2. For a detailed description of the various attributes of the data element type definitions, see IEC 61360-1.

The data element type definitions are given in Annex C.



Figure 2b

1	Code	10
2	Version number	11
3	Revision number	12
4	Preferred name	13
5	Synonymous name	14
6	Short name	15

- Preferred letter symbol 7
- 8 Definition
- 9 Note

- Value format
- Unit of measure
- Data element type class
- Source document of data element type definition
- Data type
- Data value 16
- Level
- Condition 17
- 18 Formula

Figure 2 – Data element type specification attributes

4.4 Drawings

A drawing illustrates the meaning of a class containing a group of data element types describing the geometrical characteristics of a component.

The various attributes of the drawings and the layout as used in this standard are explained with the aid of Figure 3. For a detailed description of the various attributes of the data element type definitions, see IEC 61360-1.

The drawing definitions are given in Clause D.1 while the drawing of the packages themselves are given in Clause D.2.

2 3 ό1 DAA045-001

5 ---- UCY-D-T000-B005





- Code 1
- 2 Version number
- 3 Revision number
- 4 Drawing title
- 5 Descriptive designator
- 6 7 File name
- File format

Figure 3 – Drawing specification attributes

4.5 Figures

A figure is an illustration that clarifies the meaning of the definition of a data element type.

The various attributes of the figure and the layout as used in this standard are explained with the aid of Figure 4. For a detailed description of the various attributes of the data element type definitions, see IEC 61360-1.

The figure definitions are given in Clause E.1 while the figures themselves are given in Clause E.2.

4 — Cylindrical package dimensions

DXF	DAE004.DXF
JPEG	DAE004.JPG
Windows Meta-file	DAE004.WMF
	I
6	5

1 Code

- 2 Version number
- 3 Revision number
- 4 Descriptive designator
- 5 File name
- 6 File format

Figure 4 – Figure specification attributes

4.6 Index on keywords

To facilitate an easy way of searching, in Annex F an index on keywords from the preferred name of data element types and condition data element types is given. Here, the keywords are presented in tabular form with the keyword in the left column, the identifying code of the class of the data element type in which the keyword appears in the column on the right and the corresponding preferred name in the middle.

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Annex	normati
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(normative) Classification scheme

IECREF = IEC reference collect I	tion		Class. DET	Class Drawing AAA000-001	Ð
CO = components			AAE000-001	AAA001-001	
	stric-electronic		AAE001-005	AAA002-003	
	AMP =	amplifier	AAE002-006	AAA003-001	
		LF = low frequency	AAF146-005	AAA004-001	
		PWA = power amplifier	AAF169-005	AAA005-001	
		VTA = voltage amplifier	AAF169-005	AAA006-001	
		DFA = differential amplifier	AAAF191-005	AAA007-001	
		ACA = ac-coupled amplifier	AAF192-005	AAA009-001	
		OPA = operational amplifier (dc coupled)	AAF192-005	AAA008-001	
		SSA = single sided amplifier	AAF191-005	AAA010-001	
		RF = radio frequency	AAF146-005	AAA011-001	
		WB = wide band	AAF146-005	AAA012-001	
	ANT =	antenna	AAE002-006	AAA013-002	
		CAP = capacitive (whip)	AAE511-007	AAA014-002	
		IND = inductive (ferroceptor)	AAE511-007	AAA015-002	
		RES = resistive (tuned dipole)	AAE511-007	AAA016-002	
	BAT =	battery	AAAE002-006	AAA017-001	
		PRI = primary battery (single charge)	AAE510-005	AAA018-001	
		SEC = secondary battery (rechargeable)	AAE510-005	AAA019-001	
		capacitor	AAE002-006	AAA020-002	
		FIX = fixed	AAE003-006	AAA021-003	

AIR = air capacitor		Class. DET AAE004-007	Class AAA022-001	Drawing
CER = ceramic capacit	tor	AAE004-007	AAA023-001	
CL1 = cla	lass1 ceramic capacitor	AAE038-005	AAA024-001	
CL2 = cla	lass 2 ceramic capacitor	AAE038-004	AAA025-001	
ELC = electrolytic capa	acitor	AAE004-007	AAA026-002	
STAN = s	solid tantalum electrolytics	AAJ001-001	AA4501-001	
	non-solid tatalum electrolytics	AAJ001-001	AA502-001	
S4L = so	olid aluminium electrolytics	AAJ001-001	AA4503-001	
NAL = no	ion-solid aluminium electrolytics	AAJ001-001	AA4504-001	
FLM = film capacitor		AAE004-007	AAA027-001	
GLS = glass capacitor		AAE004-007	AAA028-001	
MIC = mica capacitor		AAE004-007	AAA029-002	
MLAY = multilayer capa	acitor /	AAE004-007	AA4505-001	
PAP = paper capacitor		AAE004-007	AAA030-001	
VAR = variable		AAE003-006	AAA031-002	
CND = conductor		AAE002-006	AAA032-001	
BAR = bare conductor		AAF239-005	AAA033-001	
INS = insulated conductor		AAF239-005	AAA034-001	
CBL = cable (multi-conc	/	AAF249-005	AAA035-005	
d = MOd	power	AAE152-005	AAA036-001	
	ignal	AAE152-005	AAA037-001	
	LF = low frequency	AAF146-005	AAA038-001	
	RF = radio frequency	AAF146-005	AAA39-001	
IWR = insulated wire (s	single conductor)	AAF249-005	AAA040-001	
DEL = delay line		AAE002-006	AAA041-001	
DID = diode device		AAE002-006	AAA042-001	

_		Class. DET	Class	Drawing
	BRI = bridge rectifier	AAF305-005	AAA043-001	
	DIO = diode	AAF305-005	AAA044-001	
	BOD = breakover diode	AAE273-007	AAA045-001	
	REC = rectifier diode	AAE273-007	AAA046-001	
	SIG = signal diode	AAE273-007	AAA047-002	
	STB = stabilizer diode	AAE273-007	AAA048-001	
	CUR = current regulator diode	AAE312-005	AAA049-001	
	REF = voltage reference diode	AAE312-005	AAA050-001	
	REG = voltage regulator diode	AAE312-005	AAA051-001	
	STA = stabistor	AAE312-005	AAA052-001	
	SUP = transient suppressor diode	AAE312-005	AAA053-001	
	VAR = variable diode	AAE273-007	AAA054-002	
	VMP = voltage multiplier	AAF305-005	AAA055-001	
FIBOP	TIC = fibre optics	AAE002-006	AA4578-001	
	LINKS = fibre optic links	AAJ048-001	AA4579-001	
	CONN = fibre optic connectors)	AAJ048-001	AAA580-001	
	SWI = fibre optic switches	AAJ048-001	AAA581-001	
	BRA = fibre optic branches	AAJ048-001	AAA582-001	
	COUP = fibre optic couplers/splicers	AAJ048-001	AAA583-001	
	ATT = fibre optic attenuators	AAJ048-001	AAA584-001	
	DET = fibre optic detectors	AAJ048-001	AAA585-001	
	ISOL = fibre optic isolators	AAJ048-001	AAA586-001	
	NETW = fibre optic networks	AAJ048-001	AAA587-001	
	SOURC = fibre optic light sources	AAJ048-001	AAA588-001	
	MOD = fibre optic modulators	AAJ048-001	AAA589-001	

	TXRX = fibre optic transmitters/receivers	Class. DET AAJ048-001	Class AAA590-001	Drawing
	WG = fibre optic waveguiders	AAJ048-001	AAA591-001	
	CAB = fibre optic cables	AAJ048-001	AAA592-001	
	FIL = fibre optic filters	AAJ048-001	AAA593-001	
	LENS = fibre optic lenses	AAJ048-001	AAA594-001	
	filter	AAE002-006	AAA056-002	
	0-	AAE002-006	AAA057-001	
	AD = AD (analogue/digital)	AAE077-005	AAA072-001	
	ANA = analogue	AAE077-005	AAA058-001	
	DIG = digital	AAE077-005	AAA059-001	
	CSI = CSI (combinatorial sequential interface)	AAE085-005	AAA060-001	
	MUC = microcontroller	AAE085-005	AAA061-001	
	MUP = microprocessor	AAE085-005	AAA062-001	
	PLD = PLD (programmable logic device	AAE085-005	AAA063-001	
	STO = storage	AAE085-005	AAA064-002	
	CAM = CAM	AAE722-007	AAA065-001	
	CCD = charge coupled device	AAE722-007	AAA066-001	
	RAM = RAM	AAE722-007	AAA067-001	
	DRM = DRAM	AAF233-005	AAA068-001	
	SRM = SRAM	AAF233-005	AAA069-001	
	ROM = ROM	AAE722-007	AAA070-001	
	REG = register	AAE722-007	AAA071-002	
	PER = periodic/DC	AAE077-005	AAA073-001	
= ONI	inductor	AAE002-006	AAA074-002	
	FIX = fixed inductors	AAE003-006	AAA601-001	
	DFL = deflection units	AAF390-002	AAA225-001	

– 20 –

-	Class. DET	Class	Drawing
CHOKE = choke	AAF390-002	AAA226-001	
COIL = coil	AAF390-002	AAA227-001	
LINUNIT = linearity control unit	AAF390-002	AAA228-001	
ANT = antenna inductors	AAF390-002	AAA603-001	
SOL = solenoids	AAF390-002	AAA604-001	
VAR = variable inductors	AAE003-006	AAA602-001	
LAM = lamp	AAE002-006	AAA075-001	
LCD = liquid crystal display	AAE002-006	AAA076-001	
	AAE002-006	AAA229-001	
OPT = optoelectronic device	AAE002-006	AAA077-002	
IMAGE = image pickup devices	AAE545-006	AAA597-001	
PHC = photocoupler	AAE545-006	AAA078-001	
PHE = photoemitter	AAE545-006	AAA079-001	
IRD = infrared emitting diode	AAE555-005	AAA081-001	
LAS = laser	AAE555-005	AAA082-001	
TED = LED	AAE555-005	AAA080-001	
PHS = photosensor	AAE545-006	AAA083-001	
IR = infrared sensor	AAE566-005	AAA084-001	
U = ultraviolet radiation	AAE566-005	AAA085-001	
VIS = visible radiation	AAE566-005	AAA086-001	
OSC = oscillator	AAE002-006	AAA087-001	
PE = piezoelectric device	AAE002-006	AAA088-001	
PWC= printed wiring circuit	AAE002-006	AAA232-001	
RES = resistor	AAE002-006	AAA089-002	
FIX = fixed	AAE003-006	AAA090-002	

LIN = linear	Class. DET AAE114-007	Class Drawir AAA091-002	ing
MUL = linear resistor networks	AAF101-006	AAA093-002	
SIN = single linear resistors	AAF101-006	AAA092-002	
CHIP = fixed chip resistor	AAJ003-001	AA512-001	
FUS = fixed fusing resistor	AAJ003-001	AA514-001	
LP = fixed low power resistor	AAJ003-001	AA511-001	
PREC = fixed precision resist	AAJ003-001	AA509-001	
PWR = fixed power resistor	AAJ003-001	AA510-001	
THERM = linear positive temperature coefficient resist	AAJ003-001	AAA513-001	
NLN = non-linear	AAE114-007	AAA094-001	
LDR = light dependent resistor	AAE122-005	AAA095-001	
TDR = thermistor (temperature)	AAE122-005	AAA096-002	
NTC = NTC	AAE126-005	AA097-001	
PTC = PTC	AAE126-005	AAA098-002	
VDR = varistor (voltage)	AAE122-005	AAA099-001	
VAR = variable	AAE003-006	AAA100-003	
POT = potentiometer (3 or more terminals	AAE139-005	AAA102-002	
PRESET = preset potentiome	- AAJ006-002	AA516-002	
PRECROT = rotary precision	AAJ006-002	AA607-001	
SLIDE = slide potentiometer	AAJ006-002	AA517-001	
LPROT = low-power rotary potentiometer	AAJ006-002	AAA609-001	
PWRROT = power rotary potentiometer	AAJ006-002	AAA608-001	
TT = two terminal variable resistor	AAE139-005	AAA101-001	
	AAE002-006	AAA596-001	

_		Class. DET	Class	Drawing
SEN = se	ensor	AAE002-006	AAA103-001	
	——HUM = relative humidity	AAE892-005	AAA104-001	
	LGT = light	AAE892-005	AAA105-001	
	MGN = magnetic field strength	AAE892-005	AAA106-001	
	NCL = nuclear	AAE892-005	AAA107-001	
	PRS = pressure	AAE892-005	AAA108-001	
	PRX = proximity	AAE892-005	AAA109-001	
	TMP = temperature	AAE892-005	AAA110-001	
SPARK =	= spark gaps	AAE002-006	AAA595-001	
	——AIR = air spark gaps	AAJ081-001	AAA605-001	
		AAJ081-001	AAA606-001	
TFM = tr	ansformer	AAE002-006	AAA111-001	
		AAE152-001	AAA112-001	
	FIX = fixed	AAE003-006	AAA113-001	
	VAR = variable	AAA114-001	AAA114-001	
		AAE152-001	AAA115-002	
	FIX = fixed	AAE003-006	AAA116-001	
	VAR = variable	AAE003-006	AAA117-001	
TRA = trê	ansistor	AAE002-006	AAA118-001	
	BIP = bipolar transistor	AAE401-001	AAA119-002	
	POW = power signal transistor	AAE971-007	AAA120-002	
	LF = low frequency	AAF146-005	AAA121-001	
	RF = radio frequency	AAF146-005	AAA122-001	
	SIG = small signal transistor	AAE971-007	AAA123-002	
	LF = low frequency	AAF146-005	AAA124-001	

RF = radio frequency	Class. DET AAF146-005	Class Drawin AAA125-001	бu
FET = field effect transistor	AAE401-001	AAA126-002	
POW = power signal transistor	AAE971-007	AA127-002	
LF = low frequency	AAF146-005	AAA128-001	
RF = radio frequency	AAF146-005	AAA129-001	
SIG = small signal transistor	AAE971-007	AAA130-002	
TRG = trigger device	AAE002-006	AAA131-001	
DIA = diac	AAE724-005	AAA132-001	
THY = thyristor	AAE724-005	AAA133-001	
FTO = fast turn-off thyristor	AAE743-005	AAA134-001	
GTO = gate turn-off thyristor	AAE743-005	AAA135-001	
RVB = reverse blocking thyristor	AAE743-005	AAA136-001	
TRI = triac	AAE724-005	AAA137-001	
TUB = tube	AAE002-006	AAA138-001	
CRT = display tube (cathode-ray tube)	AAE696-005	AAA139-001	
COL = colour display tube	AAF202-005	AA140-001	
MCR = monochrome display tube	AAF202-005	AA141-002	
GAS = gas filled tube	AAE696-005	AAA142-001	
PHO = photo sensitive tube	AAE696-005	AA142-001	
SCC = space charge controlled tube	AAE696-005	AA142-001	
SCW = space charged wave tube	AAE696-005	AAA142-001	
TUN = tuner	AAE002-006	AAA146-001	
EM = electromechanical	AAE001-005	AA147-003	
	AAE060-006	AA148-002	
CIRC = circular connector	AAE349-006	AA518-001	
IC = IC connector	AAE349-006	AA4522-001	

	Class. DET	Class	Drawing
JACK = plug and jack	AAE349-006	AAA526-001	
ASSY = plug assemblies	AAE349-006	AAA549-001	
CMPLX = complex jack boards	AAJ024-001	AAA550-001	
CONC = concentric plug and jack	AAJ024-001	AA4536-001	
JACK = concentric jack	AAJ025-001	AA4538-001	
	AAJ025-001	AAA539-001	
PLUG = concentric plug	AAJ025-001	AAA537-001	
PIN = pin plug and jack	AAJ024-001	AA540-001	
JACK = pin jack	AAJ026-001	AAA542-001	
MULT = pin multiple jack	AAJ026-001	AAA543-001	
PIN = pin plug	AAJ026-001	AAA541-001	
SHLD = shielded pin jack	AAJ026-001	AAA544-001	
PWR = plug and jack for d.c. power	AAJ024-001	AAA545-001	
CAR = car plug	AAJ027-001	AAA548-001	
JACK = dc power jack	AAJ027-001	AAA547-001	
PLUG dc power plug	AAJ027-001	AAA546-001	
MOD = modular connector	AAE349-006	AAA523-001	
PCB = printed circuit board	AAE349-006	AA4520-001	
RECT = rectangular connector	AAE349-006	AA519-001	
RF = RF connector	AAE349-006	AA4521-001	
SOCK = sockets	AAE349-006	AAA527-001	
ANT = socket for antenna feeder	AAJ028-001	AAA565-001	
FUSE = fuse holder and socket	AAJ028-001	AAA564-001	
	AAJ028-001	AAA555-001	
LIGHT = lighting socket	AAJ028-001	AAA563-001	

	PCB = socket for PCB	Class. DET AAJ028-001	Class AAA556-001	Drawing
	PWR = power socket	AAJ028-001	AAA557-001	
	SIG = signal socket	AAJ028-001	AAA561-001	
	TRA = transistor socket	AAJ028-001	AAA554-001	
	TUBE = socket for tube	AAJ028-001	AAA551-001	
	TAL = socket for quartz cristal	AAJ028-001	AAA562-001	
	TERM = terminals	AAE349-006	AAA528-001	
	ARRY = terminal array	AAJ031-001	AAA569-001	
	BRD = terminal board	AAJ031-001	AAA572-001	
	ROD = terminal rod	AAJ031-001	AAA573-001	
	SM = small terminals	AAJ031-001	AAA566-001	
	PART = connector part	AAE060-006	AA610-001	
	CONTACT = connector contact	AAF464-001	AAA524001	
	ACCY = connector accessoires	AAF464-001	AAA525-001	
	TOOL = connector tool	AAF464-001	AA611-001	
	SHELL = connector shell	AAF464-001	AA612-001	
	INSERT = connector insert	AAF464-001	AA613-001	
= SU3	= fuse	AAE060-006	AAA149-002	
	CUR current activated fuse	AAJ012-002	AAA575-001	
	TERM = thermally activated fuse	AAJ012-002	AAJ576-001	
	loudspeaker	AAE060-006	AAA150-001	
	ELM = electromagnetic loudspeaker	AAE005-006	AAA154-001	
	ELS = electrostatic loudspeaker	AAE005-006	AAA157-001	
		AAE005-006	AAA153-001	
	MGD = magnetodynamic loudspeaker	AAE005-006	AAA152-001	
	MGS = magnetostrictive loudspeaker	AAE005-006	AAA158-001	



BARE = bare die with pads on one side and without connection structure	Class. DET AAD004-001	Class AAA295-001	Drawing
BUMP = bare die with bumped pads	AAD004-001	AAA296-001	
DUAL = bare die with pads on both surfaces	AAD004-001	AAA299-001	
LEAD = bare die with attached lead frame	AAD004-001	AAA297-001	
MPD = minimally packaged die device	AAD004-001	AAA298-001	
PAK = packaging outline	AAG000-001	AAA303-001	
BD = peads	AAG057-001	AAA304-001	
A = axial	AAG056-001	AAA322-001	
	AAG058-001	AAA353-001	
T001 = straight	AAG054-001	AAA391-001	DAA001-001
B = bottom	AAG056-001	AAA323-001	
W = wire	AAG058-001	AAA354-001	
T001 = straight	AA9054-001	AAA392-001	DAA002-001
T002 = formed	AAG054-001	AAA393-001	DAA003-001
CC = chip carriers	AAG057-001	AAA305-001	
$ \alpha = quad$	AAG056-001	AAA324-001	
	AAG058-001	AAA355-001	
T000 = standard	AAG054-001	AAA394-001	
B002 = non-bumped package	AAG055-001	AAA445-001	DAA040-001
	AAG058-001	AAA356-001	
T000 = standard	AAG054-001	AAA395-001	
B009 = non-cavity package (moulded)	AAG055-001	AAA446-001	DAA041-001
B010 = cavity package (ceramic)	AAG055-001	AAA447-001	DAA042-001
CY = cylindricals	AAG057-001	AAA307-001	
A = axial	AAG056-001	AAA325-001	

W = wire	Class. DET AAG058-001	Class AAA357-001	Drawing
T001 = straight	AAG054-001	AAA396-001	
B003 = plain cylindricals	AAG055-001	AAA448-001	DAA043-001
B004 = top hat package	AAG055-001	AAA449-001	DAA044-001
B = bottom	AAG056-001	AAA326-001	
W = wire	AAG058-001	AAA358-001	
T003 = leads on a circle	AAG054-001	AAA397-001	DAA004-001
T004 = straight leads in line	AAG054-001	AAA398-001	DAA005-001
T005 = formed leads in line	AAG054-001	AAA399-001	DAA006-001
T006 = leads on a square grid	AAG054-001	AAA400-001	DAA007-001
T007 = offset leads	AAG054-001	AAA401-001	DAA008-001
E = end	AAG056-001	AAA327-001	
R = wrap around	AAG058-001	AAA359-001	
T000 = standard form	AAG054-001	AAA402-001	DAA009-001
R = radial	AAG056-001	AAA328-001	
D = solder lug	AAG058-001	AAA360-001	
T001 = straight leads	AAG054-001	AAA402-001	DAA010-001
W = wire	AAG058-001	AAA361-001	
T001 = straight leads	AAG054-001	AAA404-001	DAA011-001
U = upper	AAG056-001	AAA329-001	
D = solder lug	AAG058-001	AAA362-001	
T000 = standard form	AAG054-001	AAA405-001	
B005 = clamp mount package	AAG055-001	AAA450-001	DAA045-001
B006 = stud mount package	AAG055-001	AAA451-002	DAA046-002
Y = screw	AAG058-001	AAA363-001	
T000 = standard form	AAG054-001	AA406-001	

	_	Class. DET	Class	Drawing
	B005 clamp mount package	AAG055-001	AAA452-001	DAA047-001
	B006 = stud mount package	AAG055-001	AAA453-002	DAA048-002
DB = discs		AAG057-001	AAA308-001	
A = axial		AAG056-001	AAA330-001	
W = wire		AAG058-001	AAA364-001	
	— T001 = straight leads	AAG054-001	AAA407-001	DAA012-001
B = bottom		AAG056-001	AAA331-001	
W = wire		AAG058-001	AAA365-001	
	— T001 = straight leads	AAG054-001	AAA408-001	DAA013-001
	—T002 = formed leads	AAG054-001	AAA409-001	DAA014-001
FM = flange mount		AAG057-001	AAA309-001	
B = bottom		AAG056-001	AAA332-001	
= A		AAG058-001	AAA366-001	
		AAG054-001	AAA410-001	DAA015-001
	T003 = leads on a circle	AAG054-001	AAA411-001	DAA016-001
D = double		AAG056-001	AAA333-001	
= d = d		AAG058-001	AAA367-001	
		AAG054-001	AAA412-001	DAA017-001
S = single		AAG056-001	AAA334-001	
T = through	hole	AAG058-001	AAA368-001	
	— T011 = straight flat leads	AAG054-001	AAA413-001	DAA018-001
		AAG054-001	AAA414-001	DAA019-001
Z = zig-zag		AAG056-001	AAA335-001	
T = through	hole	AAG058-001	AAA369-001	
	—T011 = straight flat leads	AAG054-001	AA415-001	

T023 = straight V-section leads	Class. DET AAG054-001	Class AAA416-001	Drawing
FP = flat pack	AAG057-001	AAA311-001	
D = double	AAG056-001	AAA336-001	
	AAG058-001	AAA370-001	
T011 = straight flat leads	AAG054-001	AAA417-001	DAA020-001
Q = quad	AAG056-001	AAA337-001	
G = gull wing	AAG058-001	AAA371-001	
T000 = standard form	AAG054-001	AA418-001	
B002 = non-bumped package	AAG055-001	AAA454-001	DAA049-001
——GA = grid arrays	AAG057-001	AAA312-001	
B = bottom	AAG056-001	AAA338-001	
B = butt	AAG058-001	AAA372-001	
T012 = solder ball	AAG054-001	AAA419-001	DAA021-001
P = perpendicular	AAG056-001	AAA339-001	
nig = Pin	AAG058-001	AAA373-001	
T009 = round pin	AAG054-001	AAA420-001	
B007 = cavity up	AAG055-001	AAA455-001	DAA050-001
B008 = cavity down	AAG055-001	AAA456-001	DAA051-001
TP = in line	AAG057-001	AAA313-001	
D = double	AAG056-001	AAA340-001	
P= pin	AAG058-001	AAA374-001	
T009 = round pin	AAG054-001	AAA421-001	DAA022-001
T010 = rectangular pin	AAG054-001	AAA422-001	DAA023-001
T = through hole	AAG058-001	AAA375-001	
T000 = standard form	AAG054-001	AAA423-001	DAA024-001
Q = quad	AAG056-001	AAA341-001	

_	Class. DET	Class	Drawing
T = through hole	AAG058-001	AAA376-001	
T000 = standard form	AAG054-001	AAA424-001	
S = single	AAG056-001	AAA342-001	
T = through hale	AAG058-001	AAA377-001	
T000 = standard form	AAG054-001	AAA425-001	
T = triple	AAG056-001	AAA343-001	
T = through hale	AAG058-001	AAA378-001	
T000 = standard form	AAG054-001	AAA426-001	
Z = zig-zag	AAG056-001	AAA344-001	
T = through hole	AAG058-001	AAA379-001	
T000 = standard form	AAG054-001	AAA427-001	
LF = long form	AAG057-001	AAA314-001	
A = axial	AAG056-001	AAA345-001	
W = wire	AAG058-001	AAA380-001	
T001 = straight	AAG054-001	AAA428-001	
PM = post mount	AAG057-001	AAA318-001	
	AAG056-001	AAA346-001	
D = solder lug	AAG058-001	AAA381-001	
T013 = one fixed tag	AAG054-001	AAA429-002	DAA025-002
T014 = two fixed tags	AAG054-001	AAA430-002	DAA026-002
H = high current cable	AAG058-001	AAA382-001	
T015 = one lead with tag	AAG054-001	AAA431-002	DAA027-002
T016 = two leads with tags	AAG054-001	AAA432-002	DAA028-002
T017 = three leads with tags	AAG054-001	AAA433-002	DAA029-002
T018 = one lead no tag	AAG054-001	AAA434-002	DAA030-002

RC = rectangular	Clas	ss. DET 3057-001	Class AAA319-001	Drawing
A = axial	AAG	3056-001	AAA347-001	
D = solder lug	AAG	3058-001	AAA383-001	
T019 = stri	p lead AAG	3054-001	AAA435-001	DAA031-001
	AAG	3058-001	AAA384-001	
T007 = off-	set leads AAG	3054-001	AAA436-001	DAA032-001
B = bottom	AAG	3056-001	AAA348-001	
	AAG	3058-001	AAA385-001	
T001 = stra	aight leads AAG	3054-001	AAA437-001	DAA033-001
T002 = forr	AAG leads	3054-001	AAA438-001	DAA034-001
E = end	AAG	3056-001	AAA349-001	
N = no lead	AAG	3058-001	AAA386-001	
T000 = sta	ndard form AAG	3054-001	AAA439-001	DAA035-001
R = wrap around	AAG	3058-001	AAA387-001	
T000 = sta	ndard form AAG	3054-001	AAA440-001	DAA036-001
SO = small outline	AAG	3057-001	AAA320-001	
D = double	AAG	3056-001	AAA350-001	
G = gull-wing	AAG	3058-001	AAA388-001	
T020 = mul	Itiple leads AAG	3054-001	AAA441-001	DAA037-001
T021 = thre	ee leads AAG	3054-001	AAA442-001	DAA038-001
Q = quad	AAG	3056-001	AAA351-001	
G = gull-wing	AAG	3058-001	AAA389-001	
T000 = star	ndard form AAG	3054-001	AAA443-001	
S = single	AAG	3056-001	AAA352-001	
G = gull wing	AAG	3058-001	AAA390-001	
+T022 = two	AGC Add tab	3054-001	AAA444-001	DAA039-001

	Class. DET	Class Drawing
MA = materials	AAE000-001	AA218-001
ACO = acoustical	AAF311-007	AA219-001
DIEL = dielectric and insulating material	AAF311-007	AAA231-001
MG = magnetic	AAF311-007	AAA220-001
HRD = hard magnetic (high coercivity)	AAE759-005	AA221-001
<pre>SFT = soft magnetic (low coercivity)</pre>	AAE759-005	AAA222-001
OP = optical	AAF311-006	AAA223-001
PWL = printed wiring laminate	AAF311-007	AAA230-001
TH = thermal	AAF311-007	AAA224-001
Annex B (normative) Class definitions

AAA000-001 01

IEC reference collection

IECREF

Root class providing a name scope for the characteristic properties in the IEC reference collection of standard data element types.

NOTE

IEC REFERENCE COLLECTION is a data dictionary containing a classification with associated sets of properties for the description of electric/electronic and electromechanical components and materials.

AAE000-001 IEC reference class

AAA001-001 02

Components

CO

A set of industrial products of which each product can be described with the same group of data element types.

NOTE

COMPONENTS are industrial products which serve a specific function or functions, which are not decomposable or physically divisible and which are intended for use in a higher-order assembled product.

Properties

AAE006-006	mounting features
AAE012-005	international standard
AAE017-005	reference temperature
AAE019-005	body length
AAE020-005	body height
AAE021-005	body breadth
AAE022-005	outside diameter
AAE111-005	packing type
AAE112-005	taping
AAE687-005	quality approval authority
AAE752-005	mass
AAE753-005	inside diameter
AAE834-005	component description
AAE965-005	component status
AAF043-005	national standard
AAF265-005	packing arrangement
AAF267-005	inner tape spacing
AAF268-005	orientation
AAF269-005	marking method
AAF276-002	stress temperature min
AAF277-002	stress temperature max
AAF278-002	stress ambient temperature
AAF279-002	stress relative humidity
AAF318-001	flange breadth
AAF356-001	reference view
AAF357-001	terminal identifier
AAF358-001	swapability indicator
AAF359-001	permutability indicator
AAF362-001	centre of gravity (x-axis)
AAF363-001	centre of gravity (y-axis)

AAF364-001 AAF365-001 AAF366-001 AAF367-001 AAF368-001 AAF369-001 AAF370-001 AAF372-001 AAF391-001	probability distribution normal average value normal standard deviation Poisson variance value Poisson expectation value test voltage coefficient MIL specification preformed lead case size connect-node code
AAF392-001	project view code
AAF393-001	x-coordinate of the reference point
AAF394-001	y-coordinate of the reference point
AAF395-001	z-coordinate of the reference point
AAF396-001	scale
AAF397-001	net area
AAF398-001	gross area
AAF399-001	net space
AAF400-001	gross space
AAF401-001	x-coor. preferred mounting position
AAF403-001	z-coor. preferred mounting position
AAF404-001	mounting deviation y/z
AAF405-001	mounting deviation y/x
AAF406-001	x-coordinate position location
AAF407-001	y-coordinate position location
AAF408-001	z-coordinate position location
AAF409-001	cylinder radius
AAF410-001	cylinder height
AAF411-001	angle axis to x-axis
AAF412-001	angle axis to y-axis
AAF413-001	angle axis to z-axis
AAF414-001	cone radius
AAF415-001	cone height
AAF416-001	semi angle
AAF417-001	sphere radius
AAF418-001	x-coordinate of centre
AAF419-001	y-coordinate of centre
AAF420-001	z-coordinate of centre
AAF421-001	major radius of torus
AAF422-001	minor radius of torus
AAF423-001	wedge x-size
AAF424-001	wedge y-size
AAF425-001	wedge z-size
AAF426-001	major edge
AAF427-001	minor edge
AAF428-001	primitive height
AAF429-001	edge-length
AAF430-001	internal radius
AAF431-001	external radius
AAF432-001	minor radius
AAF433-001	installation instruction
AAF435-001 AAF436-001 AAF437-001 AAE001-005	simultaneity factor column type main class of component
Subclasses	

AAA002-003 Electric/electronic components AAA147-001 Electromechanical components AAA215-001 Magnetic parts

AAA002-003 01

Electric/electronic components EE

A set of electric/electronic components of which each component can be described with the same group of data element types.

NOTE

ELECTRIC/ELECTRONIC COMPONENTS are groups of components, as used in the classification to indicate a class of functions with a common set of data elements.

Properties

AAE007-005 terminal shape AAE008-005 terminal placement AAE023-005 terminal diameter AAE024-005 terminal pitch AAE027-005 mounted height AAE072-005 terminal length AAE149-005 safety approval AAE257-005 power dissipation AAE259-005 shape/size code BSI AAE267-005 rated temperature AAE347-005 CECC specification AAE540-005 current rms AAE633-005 lacquered length AAE634-005 terminal material AAE688-005 thermal resistance AAE785-005 signal type AAE841-005 storage temperature AAE891-005 ambient temperature AAE905-005 dissipation derating factor AAE987-005 power consumption AAF316-001 hole pitch AAF317-001 flange length AAF319-001 flange height AAF320-001 body diameter AAF321-001 pitch (x-axis) pitch (y-axis) AAF322-001 pitch circle diameter AAF337-001 AAF338-001 terminal breadth AAF339-001 terminal thickness AAF340-001 offset (y-axis) AAF341-001 offset (x-axis) AAF342-001 flange diameter AAF343-001 mounting method body shape AAF344-001 terminal exit position SMD AAF345-001 terminal exit position non-SMD AAF346-001 terminal shape non-SMD AAF347-001 AAF348-001 terminal shape SMD AAF351-001 number of holes AAF352-001 basic aspect AAF353-001 size code EIA AAF371-001 adjuster placement AAF373-001 number of studs AAF374-001 number of pitches (x-axis) AAF375-001 number of pitches (y-axis) AAF376-001 terminal cross-section shape AAE002-006 category EE component

Subclasses

AAA003-001 Amplifiers AAA013-001 Antennas AAA017-001 Batteries AAA020-001 Capacitors AAA032-001 Conductors

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AAA041-001	Delay lines
AAA042-001	Diode devices
AAA578-001	Fibre optics
AAA056-002	Filters
AAA057-001	Integrated circuits
AAA074-002	Inductors
AAA075-001	Lamps
AAA076-001	Liquid crystal displays
AAA229-001	Microwave components
AAA077-001	Optoelectronic devices
AAA087-001	Oscillators
AAA088-001	Piezoelectric devices
AAA232-001	Printed wiring circuits
AAA089-002	Resistors
AAA596-001	Resonators
AAA103-001	Sensors
AAA595-001	Spark gaps
AAA111-001	Transformers
AAA118-001	Transistors
AAA131-001	Trigger devices
AAA138-001	Tubes
AAA146-001	Tuners

AAA003-001 02

Amplifiers

AMP

LF

A set of amplifiers of which each amplifier can be described with the same group of data element types.

NOTE

AMPLIFIERS are active two-port devices essentially designed to produce an output signal of greater power than that of the input signal. IEC 60050(702) (1992)

Properties

AAE697-005 current consumption AAE969-005 amplifier package AAE974-005 input standing wave ratio AAE975-005 output standing wave ratio

AAF146-005 frequency application

Subclasses

AAA004-001	Low-frequency amplifiers
AAA011-001	Radio frequency amplifiers
AAA012-001	Wideband amplifiers

AAA004-001 02

Low-frequency amplifiers

A set of low-frequency amplifiers of which each amplifier can be described with the same group of data element types.

NOTE

LOW-FREQUENCY AMPLIFIERS are amplifiers designed for use with baseband unmodulated signals, for example audio, video and switching signals.

AAF169-005 amplified quantity

Subclasses

AAA005-001 Power amplifiers AAA006-001 Voltage amplifiers

AAA005-001 02

Power amplifiers

PWA

A set of power amplifiers of which each amplifier can be described with the same group of data element types.

NOTE

POWER AMPLIFIERS are amplifiers optimized to deliver output power to the load. Normally the voltage gain is insignificant and the power gain is thus mainly due to current gain.

AAA006-001 02

Voltage amplifiers

VTA

A set of voltage amplifiers of which each amplifier can be described with the same group of data element types.

NOTE

VOLTAGE AMPLIFIERS are amplifiers designed primarily to amplify the signal voltage, without supplying appreciable power.

Properties

AAF158-005	output voltage peak-to-peak
AAF159-005	large-signal voltage gain
AAF162-005	slew rate
AAF165-005	output resistance
AAF166-005	unity-gain frequency
AAF167-005	gain bandwidth product
AAF168-005	total response time

AAF191-005 input configuration

Subclasses

AAA007-001	Differential amplifiers
AAA010-001	Single-sided amplifiers

AAA007-001 02

Differential amplifiers

DFA

A set of differential amplifiers of which each amplifier can be described with the same group of data element types.

NOTE

DIFFERENTIAL AMPLIFIERS are amplifiers whose output signal is proportional to the algebraic difference between the voltages applied to their two inputs.

Properties

AAF157-005common-mode input voltageAAF160-005common-mode rejection ratioAAF163-005differential input resistanceAAF164-005common-mode input resistance

AAF192-005 coupling method

Subclasses

AAA008-001 Operational amplifiers AAA009-001 AC-coupled amplifiers

AAA008-001 02

Operational amplifiers

OPA

A set of operational amplifiers of which each amplifier can be described with the same group of data element types.

NOTE OPERATIONAL AMPLIFIERS are high-gain differential dc-coupled amplifiers.

Properties

AAF152-005input offset currentAAF153-005temp coef input offset currentAAF154-005average bias currentAAF155-005input offset voltageAAF156-005temp coef input offset voltageAAF161-005supply voltage sensitivityAAF170-005power supply rejection ratio

AAA009-001 02

AC-coupled amplifiers

ACA

SSA

RF

A set of ac-coupled amplifiers of which each amplifier can be described with the same group of data element types.

NOTE

AC-COUPLED AMPLIFIERS are differential accoupled amplifiers.

AAA010-001 02

Single-sided amplifiers

A set of single-sided amplifiers of which each amplifier can be described with the same group of data element types.

NOTE

SINGLE-SIDED AMPLIFIERS are amplifiers of which one input terminal is directly connected to earth.

AAA011-001 02

Radio frequency amplifiers

A set of RF amplifiers of which each amplifier can be described with the same group of data element types.

NOTE

RADIO FREQUENCY AMPLIFIERS are amplifiers designed for use with signals modulated on a radio-frequency carrier. IEC 60050(702) (1992)

AAA012-001 02

Wideband amplifiers

WB

A set of wideband amplifiers of which each amplifier can be described with the same group of data element types.

NOTE

WIDEBAND AMPLIFIERS are amplifiers designed for uniform operation within a broad range of frequencies, usually accommodating several signal channels.

Properties

AAE424-005power gainAAE698-005output voltageAAE699-005composite triple beatAAE700-0052nd-order beatAAE701-005input return lossesAAE702-005output return lossesAAE703-005cross modulationAAE705-005slope cable equivalentAAE706-005conformity of frequency response

AAA013-002 02

Antennas

ANT

A set of antennas of which each antenna can be described with the same set of data element types.

NOTE

ANTENNAS are transducers which either emit radio frequency power into space from a signal source or intercepts an arriving electromagnetic field, converting it into an electric signal. IEC 60747-1 (1983)

Properties

AAE340-005 effective frequency f_e2 AAE341-005 effective frequency f_e1

AAE511-007 impedance type

Subclasses

AAA014-001	Capacitive antennas
AAA015-001	Inductive antennas
AAA016-001	Resistive antennas

AAA014-001 02

Capacitive antennas

САР

A set of capacitive antennas of which each antenna can be described with the same group of data element types.

NOTE

CAPACITIVE ANTENNAS are antennas in which, under given conditions, the predominant function is effected by means of capacitance.

Properties

AAE996-005	number of sections
AAE997-005	extended length
AAE998-005	non-extended length

AAA015-001 02

Inductive antennas

IND

A set of inductive antennas of which each antenna can be described with the same group of data element types.

NOTE

INDUCTIVE ANTENNAS are antennas in which, under given conditions, the predominant function is effected by means of inductance.

Properties

AAE151-005 winding configuration AAE517-005 inductance AAE518-005 quality factor

AAA016-001 02

Resistive antennas

RES

A set of resistive antennas of which each antenna can be described with the same group of data element types.

NOTE

RESISTIVE ANTENNAS are antennas in which, under given conditions, the predominant function is effected by means of resistance.

AAA017-001 02

Batteries

BAT

A set of batteries of which each battery can be described with the same group of data element types.

NOTE

BATTERIES are electrochemical energy sources consisting of one or more cells. (derivation)

Properties

AAE262-005 encapsulation technology AAE529-005 open-circuit voltage AAE530-005 nominal capacity AAE940-005 number of cells in series AAE942-005 storage life

AAE510-005 chargeability type

Subclasses

AAA018-001 Primary batteries AAA019-001 Secondary batteries

AAA018-001 02

Primary batteries

PRI

A set of primary batteries of which each battery can be described with the same group of data element types.

NOTE

PRIMARY BATTERIES are electrochemical systems (batteries) designed for delivery of electric energy in one single uninterrupted (continuous) or interrupted (intermittent) discharge. IEC 60086-1 (2000)

Properties

AAE531-005 primary electrochemical system

AAA019-001 02

Secondary batteries

SEC

A set of secondary batteries of which each battery can be described with the same group of data element types.

NOTE

SECONDARY BATTERIES are electrochemical systems (batteries) capable of storing in chemical form the electric energy received and which can give it back by reconversion. (derivation) IEC 60050(486) (1991)

Properties

AAE532-005	secondary electrochemical system
AAE941-005	voltage during charge
AAE943-005	charge time
AAE944-005	number of charge cycles

AAA020-001 02

Capacitors

CAP

A set of capacitors of which each capacitor can be described with the same group of data element types.

NOTE

CAPACITORS are systems of two conductors (plates) separated over the extent of their surfaces by a thin insulating medium (dielectric), their intended characteristic being capacitance.

Properties

AAE010-005 climatic category AAE030-005 E series AAE044-005 rated voltage (dc) AAE065-005 tangent of loss angle AAE067-005 temperature coefficient (cap) AAF360-001 max range value AAF361-001 min range value AAJ053-001 category voltage AAJ054-001 surge voltage AAJ055-001 rated temperature AAJ056-001 category temperature AAJ057-001 capacitance change with temperature AAJ058-001 impedance of a capacitor

AAE003-006 adjustability type

Subclasses

AAA021-003 Fixed capacitors AAA031-002 Variable capacitors

AAA021-003 01

Fixed capacitors

FIX

A set of fixed capacitors of which each capacitor can be described with the same group of data element types.

NOTE

FIXED CAPACITORS are capacitors that are designed so that the spatial relationship of their parts cannot be changed.

Properties

AAE009-005	performance grade
AAE018-001	capacitance lower tolerance (%)
AAE034-005	circuit application (capacitor)
AAE036-005	safety class
AAE046-005	capacitance
AAE047-001	capacitance upper tolerance (%)
AAE063-005	insulation resistance
AAE066-005	time constant (of capacitor)
AAE071-005	capacitance tolerance
AAE262-005	encapsulation technology
AAE268-001	capacitance upper tolerance
AAE269-001	capacitance lower tolerance
AAF462-001	toleranced capacitance
AAJ008-001	size code

AAE004-007 dielectric material type

Subclasses

AAA022-001	Fixed air capacitors
AAA023-001	Fixed ceramic capacitors
AAA026-002	Fixed electrolytic capacitors
AAA027-001	Fixed film capacitors
AAA028-001	Fixed glass capacitors
AAA029-002	Fixed mica capacitors
AAA030-001	Fixed paper capacitors
AAA505-001	Fixed mixed-dielectric capacitors

AAA022-001 02

Fixed air capacitors

AIR

CER

A set of fixed air capacitors of which each capacitor can be described with the same group of data element types.

NOTE

FIXED AIR CAPACITORS are fixed capacitors with a dielectric consisting of air.

AAA023-001 02

Fixed ceramic capacitors

A set of fixed ceramic capacitors of which each capacitor can be described with the same group of data element types.

NOTE

FIXED CERAMIC CAPACITORS are fixed capacitors with a dielectric consisting of a ceramic material.

AAE038-005 dielectric class (ceramic cap)

Subclasses

AAA024-001 Fixed class1 ceramic capacitor AAA025-001 Fixed class2 ceramic capacitor

AAA024-001 02

Fixed class1 ceramic capacitor CL1

A set of fixed ceramic capacitors class1 of which each capacitor can be described with the same group of data element types.

NOTE

FIXED CLASS1 CERAMIC CAPACITORS are ceramic capacitors specially designed and suited for resonant circuit application where low losses and high stability of capacitance are essential or where a precisely defined temperature coefficient is required. The ceramic dielectric is defined by their rated temperature coefficient (alpha). IEC 60384-8 (1988)

Properties

AAE035-005 temperature coefficient code AAE266-005 dielectric subclass 1

AAA025-001 02

Fixed class2 ceramic capacitor CL2

A set of fixed ceramic capacitors class2 of which each capacitor can be described with the same group of data element types.

NOTE

FIXED CLASS2 CERAMIC CAPACITORS are ceramic capacitors which have a dielectric with a high permittivity and which are suitable for by-pass and coupling applications or for frequency discriminating circuits where low losses and high stability of capacitance are not of major importance. The ceramic dielectric is characterized by the nonlinear change of capacitance over the category temperature range. IEC 60384-9 (1988)

Properties

AAE037-005 EIA temperature characteristic AAE076-005 dielectric subclass 2

AAA026-002 01

Fixed electrolytic capacitors ELC

A set of fixed electrolytic capacitors of which each capacitor can be described with the same group of data element types.

NOTE

FIXED ELECTROLYTIC CAPACITORS are fixed capacitors in which the electrolytically formed oxide layer on the surface of the anode serves as a dielectric and having a solid or non-solid electrolyte forming the cathode, usually having polar properties.

Properties

AAE040-005	electrode material type
AAE041-005	shelf life
AAE042-005	leakage current short-term
AAE043-005	leakage current continuous
AAE064-005	equivalent series resistance
AAE073-005	endurance
AAE263-005	polarity type
AAE960-005	ripple current
AAE960-005 AAE960-005 AAJ051-001 AAJ052-001	ripple current electrolyte type anode type

AAJ001-001 electrolytic capacitor type

Subclasses

AAA501-001	Solid tantalum
AAA502-001	Non-solid tantalum
AAA503-001	Solid aluminium
AAA504-001	Non-solid aluminium

AAA027-001 02

Fixed film capacitors

FLM

A set of fixed film capacitors of which each capacitor can be described with the same group of data element types.

NOTE

FIXED FILM CAPACITORS are fixed capacitors with a dielectric consisting of a plastic film.

Properties

AAE031-005	electrode technology
AAE033-005	voltage application
AAE039-005	film dielectric material
AAE045-005	rated voltage (ac)

AAA028-001 02

Fixed glass capacitors GLS

A set of fixed glass capacitors of which each capacitor can be described with the same group of data element types.

NOTE

FIXED GLASS CAPACITORS are fixed capacitors with a dielectric consisting of glass.

AAA029-002 01

Fixed mica capacitors

MICA

A set of fixed mica capacitors of which each capacitor can be described with the same group of data element types.

NOTE

FIXED MICA CAPACITORS are fixed capacitors with a dielectric consisting of mica.

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AAA030-001 02

Fixed paper capacitors PAP

A set of fixed paper capacitors of which each capacitor can be described with the same group of data element types.

NOTE

FIXED PAPER CAPACITORS are fixed capacitors with a dielectric consisting of paper, usually impregnated.

AAA031-002 01

Variable capacitors

VAR

A set of variable capacitors of which each capacitor can be described with the same group of data element types.

NOTE

VARIABLE CAPACITORS are capacitors designed so that their main property can be varied by mechanically changing the spatial relationship of their parts.

Properties

AAE068-005	maximum capacitance
AAE069-005	minimum capacitance
AAE070-005	adjustability class
AAE106-005	number of functions
AAE172-005	ganging number
AAF014-005	driving feature
AAJ002-001	variable capacitor type

AAA032-001 02

Conductors

CND

A set of conductors of which each conductor can be described with the same group of data element types.

NOTE

CONDUCTORS are components containing one or more electric conductors.

Properties

i i operties	
AAF240-005	conductor finish
AAF241-005	conductive material
AAF242-006	conductor shape
AAF243-005	conductor configuration
AAF244-005	conductor size AWG
AAF245-005	dc resistance
AAF246-005	conductor diameter
AAF247-005	cross-section
AAF434-001	bending radius

AAF239-005 bare/insulated

Subclasses

AAA033-001 Bare conductors AAA034-001 Insulated conductors

AAA033-001 02

Bare conductors

BAR

A set of bare conductors of which each conductor can be described with the same group of data element types.

NOTE

BARE CONDUCTORS are conductors consisting of a single uninsulated conductive part.

AAA034-001 02

Insulated conductors

INS

A set of insulated conductors of which each conductor can be described with the same group of data element types.

NOTE

INSULATED CONDUCTORS are conductors containing one or more insulated conductive parts.

Properties

AAF248-005 insulating material AAF251-005 test voltage minimum

AAF249-005 cable/wire

Subclasses AAA035-001 Cables AAA040-001 Insulated wires

AAA035-001 02

Cables

CBL

A set of cables of which each cable can be described with the same group of data element types.

NOTE

CABLES (electric) are an assembly of conductors insulated from one another and enclosed in a common binding or sheathing, and having some degree of flexibility.

Properties

AAF252-005MIL cable typeAAF254-005cable configurationAAF255-005number of cable elementsAAF258-005working voltageAAF259-005capacitance between conductors

AAE152-005 power/signal

Subclasses	
AAA036-001	Power cables
AAA037-001	Signal cables

AAA036-001 02

Power cables

A set of power cables of which each cable can be described with the same group of data element types.

NOTE

POWER CABLES are cables designed for the purpose of handling energy.

AAA037-001 02

Signal cables

SIG

POW

A set of signal cables of which each cable can be described with the same group of data element types.

NOTE

SIGNAL CABLES are cables designed for the purpose of handling a signal.

AAF146-005 frequency application

Subclasses

AAA038-001 LF cables AAA039-001 RF cables

AAA038-001 02

LF cables

LF

A set of low-frequency cables of which each cable can be described with the same group of data element types.

NOTE

LF CABLES are cables designed for use with baseband unmodulated signals, for example audio, video and switching signals.

Properties

AAF253-005 LF cable element

AAA039-001 02

RF cables

RF

A set of RF cables of which each cable can be described with the same group of data element types.

NOTE

RF CABLES are cables designed for use with signals modulated on a radio-frequency carrier.

Properties

AAF256-005 RF cable element AAF257-005 dielectric construction AAF260-005 characteristic impedance AAF261-005 attenuation

AAA040-001 02

Insulated wires

A set of insulated wires of which each wire can be described with the same group of data element types.

NOTE

INSULATED wires are conductors consisting of a single insulated conductive part.

Properties

AAF250-005 colour code AAF262-005 wire application

AAA041-001 02

Delay lines

DEL

IWR

A set of delay lines of which each delay line can be described with the same group of data element types.

NOTE

DELAY LINES are linear two-port devices designed to introduce a desired delay in the transmission of a signal, without modifying the other characteristics of the signal.

Properties

AAE442-005	colour TV transmission
AAE534-005	bandwidth
AAE541-005	frequency
AAE542-005	delay line application
AAE543-005	delay time
AAE544-005	phase delay time
AAE877-005	working principle
AAE878-006	delay line type
AAE879-005	spurious signal level (3-tau)
AAE880-005	spurious signal level
AAE885-005	phase relation
AAE886-005	phase delay drift
AAE887-005	insertion loss

AAA042-001 02

Diode devices

DID

A set of diode devices of which each device can be described with the same group of data element types.

NOTE

DIODE DEVICES are components built up of one or more two-terminal semiconductor devices and which can contain also resistors and/or capacitors.

Properties

AAF275-002 junction stress temperature

AAF305-005 category of diode device

Subclasses

AAA043-001 Bridge rectifiers AAA044-001 Diodes AAA055-001 Voltage multipliers

AAA043-001 02

Bridge rectifiers BRI

A set of bridge rectifiers of which each bridge rectifier can be described with the same group of data element types.

NOTE

BRIDGE RECTIFIERS are full-wave rectifiers with four elements connected as a bridge circuit with dc voltage obtained from one pair of opposite junctions when alternating current is applied to the other pair.

Properties

AAE284-005	peak inrush current limit
AAE285-005	non-rep peak input current limit
AAE286-005	average output current
AAE287-005	repetitive peak output current
AAE290-005	repetitive peak input voltage
AAE291-005	rms input voltage
AAE292-005	crest working input voltage

AAA044-002 02

Diodes

DIO

A set of diodes of which each diode can be described with the same group of data element types.

NOTE

DIODES are two-terminal semiconductor devices having an asymmetric voltage-current characteristic.

Properties

AAE276-005	reverse current
AAE277-005	reverse voltage
AAE279-005	forward voltage
AAE331-005	diode package
AAE337-005	junction temperature
AAE489-005	diode technology
AAE494-005	nearest conventional type
AAE496-005	diode capacitance
AAE546-005	forward current limit

AAE273-007 diode application

Subclasses	
AAA045-001	Breakover diodes
AAA046-001	Rectifier diodes
AAA047-001	Signal diodes
AAA048-001	Stabilizer diodes
AAA054-001	Variable capacitance diodes

AAA045-001 02

Breakover diodes

BOD

A set of breakover diodes of which each diode can be described with the same set of data element types.

NOTE

BREAKOVER DIODES are two-terminal semiconductor devices that operate in either an OFF (non-conducting) state or an ON (conducting) state, reaching the conducting state when a voltage of specified minimum value (breakover voltage) is applied across their terminals and then conducting with a low ON-state voltage until the current is reduced below the minimum holding current.

Properties

AAE488-005 diode configuration

AAA046-001 02

Rectifier diodes

REC

A set of rectifier diodes of which each diode can be described with the same group of data element types.

NOTE

RECTIFIER DIODES are semiconductor diodes designed for rectification and including their associated mounting and cooling attachments if integral with them.

Properties

AAE281-005	reverse recovery time
AAE293-005	repetitive peak forward current
AAE294-005	non-repetitive peak forward current
AAE296-005	working peak forward current
AAE297-005	repetitive peak reverse current
AAE299-005	crest working reverse voltage
AAE301-005	non-repetitive peak reverse voltage
AAE302-005	repetitive peak reverse power
AAE303-006	non-rep peak reverse power diss
AAE304-005	non-rep peak rev avalanche energy
AAE305-005	Joule-integral
AAE306-005	total reverse recovery time
AAE336-005	mounting base temperature
AAE488-005	diode configuration
AAE503-005	EHT stack application
AAE505-005	rectifier diode application
AAE966-005	average forward current
AAF301-005	reverse recovery time (I)
AAF302-005	breakdown voltage

AAA047-001 02

Signal diodes

SIGD

A set of signal diodes of which each diode can be described with the same group of data element types.

NOTE

SIGNAL DIODES are diodes used for the purpose of extracting or processing information contained in an electrical signal which varies with time and may be either analogue or digital.

Properties

•	
AAE281-005	reverse recovery time
AAE293-005	repetitive peak forward current
AAE294-005	non-repetitive peak forward current
AAE300-005	repetitive peak reverse voltage
AAE301-005	non-repetitive peak reverse voltage
AAE302-005	repetitive peak reverse power
AAE303-006	non-rep peak reverse power diss
AAE310-005	diode forward resistance

AAE487-005frequency bandAAE488-005diode configurationAAE490-005modulation methodAAE966-005average forward currentAAF301-005reverse recovery time (I)

AAA048-001 02

Stabilizer diodes

STB

A set of stabilizing diodes of which each diode can be described with the same group of data element types.

NOTE

STABILIZER DIODES are diodes exhibiting a breakdown caused by the transition of electrons from the valence band to the conduction band due to tunnel action under the influence of a strong electric field in the reverse direction. IEC 60050-521 (2002)

Properties

AAE318-005 non-repetitive peak reverse current AAE327-006 non-rep peak reverse power diss AAF389-001 non-rep peak reverse power diss

AAE312-005 diode function

Subclasses

AAA049-001 Current regulator diodesAAA050-001 Voltage reference diodesAAA051-001 Voltage regulator diodesAAA052-001 Stabistor diodesAAA053-001 Transient suppressor diodes

AAA049-001 02

Current regulator diodes CUR

A set of current regular diodes of which each diode can be described with the same group of data element types.

NOTE

CURRENT REGULATOR DIODES are diodes that limit current to an essentially constant value over a specified voltage range.

AAA050-001 02

Voltage reference diodes

REF

A set of voltage reference diodes of which each diode can be described with the same group of data element types.

NOTE

VOLTAGE REFERENCE DIODES are diodes which develop a reference voltage of specified accuracy across their terminals, when biased to operate within a specified current range. IEC 60747-1 (1983)

Properties

AAE316-005 working current AAE317-005 peak working current AAE322-005 temperature coefficient S_Z 61360-4 © IEC:2005(E)

AAE323-005 differential resistance AAE324-005 working voltage

AAA051-001 02

Voltage regulator diodes

REG

A set of voltage regulator diodes of which each diode can be described with the same group of data element types.

NOTE

VOLTAGE REGULATOR DIODES are diodes which develop an essential constant voltage across their terminals throughout a specified current range. IEC 60747-1 (1983)

Properties

AAE316-005 working current AAE317-005 peak working current AAE322-005 temperature coefficient S_Z AAE324-005 working voltage AAE328-005 differential resistance

AAA052-001 02

Stabistor diodes

STA

A set of stabistor diodes of which each diode can be described with the same group of data element types.

NOTE

STABISTOR DIODES are diodes having closely controlled conductance, controlled storage charge, and low leakage, as required for clippers, clamping circuits, bias regulators, and other logic circuits that require tight voltage-level tolerance.

Properties

AAE293-005 repetitive peak forward current AAE300-005 repetitive peak reverse voltage AAE328-005 differential resistance AAE329-005 temperature coefficient S_F

AAA053-001 02

Transient suppressor diodes SUP

A set of transient suppressor diodes of which each diode can be described with the same group of data element types.

NOTE

TRANSIENT SUPPRESSOR DIODES are diodes utilizing the steep slope of the blocking currentvoltage characteristics of selenium plates for limiting transient overvoltages. Suppressors may be of two types: a Polarized: Selenium transient overvoltage suppressor having an asymmetrical current-voltage characteristic; Non-polarized: Selenium transient overvoltage suppressor having a symmetrical current-voltage characteristic.

Properties

AAE313-005 clamping voltage AAE316-005 working current

AAA054-001 02

Variable capacitance diodes VARD

A set of variable capacitor diodes of which each diode can be described with the same group of data element types.

NOTE

VARIABLE CAPACITANCE DIODES are diodes that are designed so that their capacitance can be varied by changing the voltage between their terminals.

Properties

AAE310-005	diode forward resistance
AAE311-005	diode reverse resistance
AAE487-005	frequency band
AAE488-005	diode configuration
AAE490-005	modulation method
AAE502-005	capacitance ratio
AAF303-005	diode upper capacitance
AAF304-005	diode lower capacitance

AAA055-001 02

Voltage multipliers

VMP

A set of voltage multipliers of which each multiplier can be described with the same group of data element types.

NOTE

VOLTAGE MULTIPLIERS are rectifier circuits capable of supplying a dc output voltage that is greater than (generally two or more times) the peak value of the ac input voltage.

Properties

AAE282-005	output current EHT supply
AAE283-005	output current focus supply
AAE288-005	input voltage peak-to-peak
AAE289-005	output voltage EHT supply
AAE290-005	repetitive peak input voltage

AAA056-002 01

Filters

FIL

A set of filters of which each filter can be described with the same group of data element types.

NOTE

FILTERS ARE linear two-port devices designed to transmit spectral components of signals according to a specified law, generally in order to pass the components in certain frequency bands and to attenuate those in other bands. IEC 60050(702) (1992)

Properties

AAE527-005 centre frequency AAE533-005 input impedance AAE534-005 bandwidth AAE543-005 delay time AAE888-005 spurious signal level (2-tau) AAF044-005 output impedance

AAF119-005	frequency application
AAF120-005	comb depth
AAF121-005	pass-band attenuation
AAJ059-001	filter type

AAA057-001 02

Integrated circuits

IC

A set of integrated circuits of which each integrated circuit can be described with the same group of data element types.

NOTE

INTEGRATED CIRCUITS are circuits in which all or some of the circuit elements are inseparably associated and electrically interconnected so that they are considered to be indivisible for the purpose of construction and commerce. IEC 60748-1 (2002)

Properties

AAE074-005	IC application field
AAE086-005	supply voltage limit
AAE106-005	number of functions
AAE210-005	input voltage limit
AAE214-005	power dissipation per output
AAE336-005	mounting base temperature
AAE337-005	junction temperature
AAE442-005	colour TV transmission
AAE458-005	number of inputs
AAE487-005	frequency band
AAE490-005	modulation method
AAE686-005	IC technology
AAE690-005	supply voltage
AAE691-005	supply current
AAE786-005	mode of operation
AAE838-005	IC package code
AAE898-005	input capacitance
AAF275-002	junction stress temperature

AAE077-005 signal type

Subclasses

AAA058-001	Analogue signal functions
AAA059-001	Digital signal functions
AAA072-001	Analogue/digital signal functi
AAA073-001	Periodic/dc functions

AAA058-001 02

Analogue signal functions

ANA

A set of analoque signal function ICs of which each function can be described with the same group of data element types.

NOTE

ANALOGUE SIGNAL FUNCTIONS are functions designed to carry out operations on analogue signals.

Properties

AAE084-005 analogue function

DIG

AAA059-001 02

Digital signal functions

A set of digital signal function ICs of which each function can be described with the same group of data element types.

NOTE

DIGITAL SIGNAL FUNCTIONS are functions designed to carry out operations on digital signals.

Properties

AAE092-005	HIGH-state output voltage
AAE093-005	HIGH-state output voltage ref
AAE094-005	LOW-state output voltage ref
AAE097-005	LOW-state output voltage
AAE217-005	input current limit
AAE218-005	output current limit
AAE223-005	input leakage current
AAE235-005	output fall time
AAE238-005	output rise time
AAE239-005	HIGH off-state output current
AAE240-005	LOW off-state output current
AAE254-005	LOW-state output current
AAE255-005	HIGH-state output current
AAE457-005	numeral system
AAE459-005	word size
AAE464-005	mode of control
AAE718-005	HIGH-state input voltage
AAE719-005	LOW-state input voltage
AAE787-005	input/output characteristic
AAE896-005	quiescent current
AAE897-005	additional quiescent current
AAE899-005	HIGH-state input current
AAE900-005	LOW-state input current
AAE901-005	HIGH-state supply current
AAE902-005	LOW-state supply current
AAE903-005	off-state supply current
AAF207-005	output short-circuit current
AAF323-005	interface compatibility

AAE085-005 digital function

Subclasses

AAA060-001 Combinational/sequential/interface
AAA061-001 Microcontrollers
AAA062-001 Microprocessors
AAA063-001 Programmable logic devices
AAA064-001 Storage functions

AAA060-001 03

Combinational/sequential/interface CSI

A set of combinatorial/sequential/interface function ICs of which each function can be described with the same group of data element types.

NOTE

COMBINATIONAL/SEQUENTIAL/INTERFACE is an abbreviated term for combinatorial, sequential and interface, as used in the classification to indicate a class of functions with a common set of data element types.

Properties

AAE231-005 propagation delay

61360-4 © IEC:2005(E)

HIGH to LOW propagation time
LOW to HIGH propagation time
standby current disabled
standby current enabled
CSI functions
positive-going threshold
negative-going threshold
hysteresis
maximum clock frequency
set-up time
hold time
output enable time
output disable time
pulse width HIGH
pulse width LOW
metastable window
recovery time

AAA061-001 02

Microcontrollers

MUC

A set of microcontrollers of which each microcontroller can be described with the same group of data element types.

NOTE

MICROCONTROLLERS are controllers whose elements have been miniaturized into an IC. They are generally dedicated to a single application, mainly real time control.

Properties

AAF223-005	machine cycle
AAF224-005	clock frequency
AAF225-005	internal clock frequency
AAF226-005	address bus width
AAF227-005	data bus width
AAF228-005	addressable storage size
AAF229-005	instruction rate
AAF230-005	number of internal registers
AAF324-005	instruction set
AAF325-005	interrupt type
AAF326-005	addressing mode
AAF327-005	on-chip memory
AAF328-005	I/O bus width
AAF329-005	number of peripherals
AAF330-005	peripheral word size

AAA062-001 02

Microprocessors

MUP

A set of microprocessors of which each microprocessor can be described with the same group of data element types.

NOTE

MICROPROCESSORS are processors whose elements have been miniaturized into an IC.

Properties

AAF221-005 bus structure AAF222-005 instruction set architecture AAF223-005 machine cycle AAF224-005 clock frequency AAF225-005 internal clock frequency

AAF226-005address bus widthAAF227-005data bus widthAAF228-005addressable storage sizeAAF229-005instruction rateAAF230-005number of internal registersAAF324-005instruction setAAF325-005interrupt typeAAF326-005addressing modeAAF328-005I/O bus width

AAA063-001 02

Programmable logic devices PLD

A set of programmable logic devices of which each device can be described with the same group of data element types.

NOTE

PROGRAMMABLE LOGIC DEVICES are device consisting of a programmable AND array whose output terms are fed to a fixed or programmable. (a PLD may also include registers)

Properties

AAF231-005 PLD programmability

AAA064-002 02

Storage functions

STO

A set of storage functions of which each function can be described with the same group of data element types.

NOTE

STORAGE FUNCTIONS are functional units in which data (information) can be placed, in which they can be retained and from which they can be retrieved. ISO 2382-11 (1987)

Properties

AAE474-005	storage size
AAE720-005	access time
AAF232-005	output data-valid time
AAJ098-001	address set-up time
AAJ099-001	address hold time
AAJ100-001	input set-up time
AAJ101-001	input hold time
AAJ102-001	clockset-up time
AAJ103-001	clock hold time
AAJ104-001	output hold time
AAJ105-001	transition time

AAE722-007 storage function

Subclasses

AAA065-001	Content addressable memory ICs
AAA066-001	Charge coupled device ICs
AAA067-001	Random access memory ICs
AAA070-001	Read only memory ICs
AAA071-001	Registers

AAA065-001 02

Content addressable memory ICs CAM

A set of content addressable memory ICs of which each memory can be described with the same group of data element types.

NOTE

CONTENT ADDRESSABLE MEMORY are memories that respond with all the data in a storage zone if a portion of that data matches the data used for addressing the memory. If a match could occur in more than one storage zone, then usually the data read out will be that contained in the storage zone having the lowest address value.

AAA066-001 02

Charge coupled device ICs CCD

A set of charge coupled device ICs of which each charge coupled device can be described with the same group of data element types.

NOTE

CHARGE COUPLED DEVICE ICs are chargetransfer devices that store charge in potential wells and transfers this charge almost completely as a packet by translating the position of the potential wells. This device operates by changing the position of the same packet of charge.

AAA067-001 02

Random access memory ICs

RAM

A set of random access memory ICs of which each memory can be described with the same group of data element types.

NOTE

RANDOM ACCESS MEMORY ICs are memories that permit access to any of their address locations in any desired sequence.

AAF233-005 RAM type

Subclasses

AAA068-001 Dynamic ram ICs AAA069-001 Static ram ICs

AAA068-001 02

Dynamic RAM ICs

DRM

A set of dynamic RAM ICs of which each IC can be described with the same group of data element types.

NOTE

DYNAMIC RAM ICs are memories in which the cells (elements) require the repetitive application of control signals in order to retain the data stored. A dynamic memory may use dynamic addressing and/or sensing circuits. This definition applies whether or not the control signals are generated inside or outside the memory.

Properties

AAE721-005	access time from CAS
AAF331-006	refresh time interval
AAJ091-001	access time from address
AAJ092-001	access time from clock
AAJ093-001	burst-mode cycle time
AAJ094-001	random read/write cycle time
AAJ094-001	random read/write cycle time
AAJ095-001	access time from RAS
AAJ096-001	clock frequency

AAA069-001 02

Static RAM ICs

SRM

A set of static RAM ICs of which each IC can be described with the same group of data element types.

NOTE

STATIC RAM ICs are memories in which the data content is retained in the absence of control signals. A static memory may use dynamic addressing and/or sensing circuits.

Properties

AAF332-005	data retention current
AAF333-005	data retention voltage
AAF336-005	standby current chip disabled

AAA070-001 03

Read only memory ICs

ROM

A set of read only memory ICs of which each memory can be described with the same group of data element types.

NOTE

READ ONLY MEMORY ICs are memories in which the content is intended to be read only and not to be altered during normal operation.

Properties

AAF235-005	virginity state
AAF236-005	ROM programmability
AAF237-005	programming current
AAF238-005	programming voltage

AAA071-001 02

Registers

REGI

A set of registers of which each register can be described with the same group of data element types.

NOTE

REGISTERS are one-dimensional arrangements of bistable circuits by means of which information may be accepted, stored, and retrieved. (derivation)

Properties

AAF211-005 maximum clock frequency AAF234-005 register type

AAA072-001 03

Analogue/digital signal functions AD

A set of analoque/digital signal function ICs of which each function can be described with the same group of data element types.

NOTE

ANALOGUE / DIGITAL SIGNAL FUNCTIONS indicate functions which involve analogue signals as well as digital signals.

Properties

AAE788-005 AD function

AAA073-001 02

Periodic/dc functions

PER

A set of periodic/dc functions of which each function can be described with the same group of data element types.

NOTE

PERIODIC / DC FUNCTIONS indicate either periodic signals : signals f(x) of a real or complex variable with period T if f(x+T)=f(x) for every value of x; or dc signals : signals whose electric current flows in one direction only, as opposed to alternating current signal.

Properties

AAE789-005 periodic/dc function

AAA074-002 01

Inductors

IND

A set of inductors of which each inductor can be described with the same group of data element types.

NOTE

INDUCTORS are devices consisting of one or more associated windings, with or without a magnetic core, for introducing inductance into an electric circuit.

Properties

AAE262-005	encapsulation technology
AAE517-005	inductance
AAE518-005	quality factor
AAE755-005	impedance
AAE756-005	impedance decrease
AAE758-005	frequency at Z_max
AAF052-005	resonance frequency
AAF090-005	dc resistance
AAF103-005	current dc
AAF151-005	adjustability type
4AJ076-001	inductance tolerance (%)
4AJ077-001	inductance tolerance

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AAE003-006 adjustability type

Subclasses

AAA601-001 Fixed inductors AAA602-001 Variable inductors

AAA075-001 02

Lamps

LAM

A set of lamps of which each lamp can be described with the same group of data element types.

NOTE

LAMPS are sources made in order to produce an optical radiation, usually visible.

Properties

AAE519-005 nominal voltage AAE521-005 nominal current AAE522-005 mounting-cap code

AAA076-001 02

Liquid crystal displays

LCD

A set of liquid crystal displays of which each display can be described with the same group of data element types.

NOTE

LIQUID CRYSTAL DISPLAYS are displays made of material whose reflectance or transmittance changes when an electric field is applied.

Properties

driving method
quality grade
dc voltage component
drive frequency
specific current consumption
turn-on time
turn-off time
contrast ratio
display construction
character length
character height
dot length
dot height
viewing area length
viewing area height
illumination mode
digit height
connection method
dot spacing
backlight
specific capacitance
preferred viewing direction
operating voltage
digit length

AAA077-001 02

Optoelectronic devices

ΟΡΤ

A set of optoelectronic devices of which each device can be described with the same group of data element types.

NOTE

OPTOELECTRONIC DEVICES are semiconductor devices that emit or detect or that are responsive to coherent or non-coherent optical radiation or that utilise such radiation for their internal purposes.

Properties

AAE276-005reverse currentAAE277-005reverse voltageAAE279-005forward voltageAAE336-005mounting base temperatureAAE337-005junction temperatureAAE405-005collector current (dc) maxAAE496-005diode capacitanceAAE546-005forward current limitAAE816-005optoelectronic package

AAE545-006 optoelectronic device function

Subclasses

AAA078-001	Photocouplers
AAA079-001	Photoemitters
AAA083-001	Photosensors
AAA597-001	Image pickup devices

AAA078-001 02

Photocouplers

PHC

A set of photocouplers of which each photocoupler can be described with the same group of data element types.

NOTE

PHOTOCOUPLERS are semiconductor optoelectronic devices designed for the transfer of electric signals by utilizing radiant energy to provide coupling with electrical isolation between the input and the output.

Properties

AAE548-005	current transfer ratio
AAE550-005	isolation voltage min
AAE551-005	collector-emitter sat voltage
AAE553-005	turn-off time
AAE554-005	turn-on time
AAF066-005	collector-emitter breakdown voltage
AAF140-005	collector current light
AAF141-005	cut-off current dark I_CEO
AAF142-005	cut-off current dark I_CBO

AAA079-001 02

Photoemitters

PHE

A set of photoemitters of which each photoemitter can be described with the same group of data element types.

NOTE

PHOTOEMITTERS are semiconductor optoelectronic devices that directly convert electric energy into optical radiant energy.

Properties

AAE556-005	wavelength at peak emission
AAE557-005	spectral bandwidth
AAE558-005	beamwidth between 50 % values
AAE563-005	LED crystal material

AAE555-005 photoemitter function

Subclasses

AAA080-001 Light emitting diodes AAA081-001 Infrared light emitting diodes AAA082-001 Lasers

AAA080-001 02

Light emitting diodes LED

A set of light emitting diodes of which each diode can be described with the same group of data element types.

NOTE

LIGHT EMITTING DIODES are semiconductor diodes, other than semiconductor lasers, capable of emitting visible radiation when excited by an electric current.

Properties

class

AAA081-001 02

Infrared light emitting diodes

IRD

A set of infrared light emitting diodes of which each emitting diode can be described with the same group of data element types.

NOTE

INFRARED LIGHT EMITTING DIODES are semiconductor diodes, other than semiconductor lasers, capable of emitting infrared radiation when excited by an electric current.

Properties

AAE560-005	package colour
AAE564-005	LED light colour
AAF064-005	radiant intensity
AAF065-005	total radiant output power

AAA082-001 02

Lasers

LAS

A set of lasers of which each laser can be described with the same group of data element types.

NOTE

LASERS are semiconductor diodes that emit coherent optical radiation through stimulated emission resulting from the recombination of free electrons and holes when excited by an electric

current that exceeds the threshold current of the diode.

Properties

AAE561-005 radiant output power

AAA083-001 02

Photosensors

PHS

A set of photosensors of which each photosensor can be described with the same group of data element types.

NOTE

PHOTOSENSORS are semiconductor devices that utilise the photoelectric effect for detection of optical radiation.

Properties

AAE557-005 spectral bandwidth AAE558-005 beamwidth between 50 % values AAE567-005 spectral sensitivity AAE568-005 wavelength at peak response AAF138-005 collector current light AAF139-005 collector cut-off current dark AAF143-005 reverse current light AAF144-005 reverse current dark

AAE566-005 radiation type

Subclasses

AAA084-001	Infrared light photosensors
AAA085-001	Ultraviolet light photosensors
AAA086-001	Visible light photosensors

AAA084-001 02

IR Infrared light photosensors

A set of infrared light photosensors of which each sensor can be described with the same group of data element types.

NOTE

INFRARED LIGHT PHOTOSENSORS are photosensors operating with an optical radiation for which the wavelengths are longer than those for visible radiation.

Properties

AAE571-005 responsivity AAE572-005 equivalent noise irradiation AAE573-005 spectral response lower limit AAE574-005 spectral response upper limit AAE575-005 element separation AAE576-005 element length AAE577-005 element breadth

AAA085-001 02

Ultraviolet light photosensors UV

A set of ultraviolet light sensors of which each sensor can be described with the same group of data element types.

NOTE

ULTRAVIOLET LIGHT PHOTOSENSORS are photosensors operating with an optical radiation for which the wavelengths are shorter than those for visible radiation.

AAA086-001 02

Visible light photosensors VIS

A set of visible light photosensors of which each photosensor can be described with the same group of data element types.

NOTE

VISIBLE LIGHT PHOTOSENSORS are photosensors operating with any optical radiation capable of causing a visual sensation directly.

AAA087-001 02

Oscillators

osc

PE

RES

A set of oscillators of which each oscillator can be described with the same group of data element types.

NOTE

OSCILLATORS are active devices producing a periodic quantity whose fundamental frequency is determined by the characteristics of the device.

AAA088-001 02

Piezoelectric devices

A set of piezoelectric devices of which each device can be described with the same group of data element types.

NOTE

PIEZOELECTRIC DEVICES are components that operate by the piezoelectric effect, i.e. electric polarisation caused by mechanical strain or conversely. (derivation)

AAA089-002 02

Resistors

A set of resistors of which each resistor can be described with the same group of data element types.

NOTE

RESISTORS are devices used because of their primary property of resistance.

Properties

AAE010-005	climatic category	
AAE030-005	E series	
AAE118-005	limiting element voltage (d	c)
AAE635-001	resistor package	
AAF097-005	stability after test	
AAF100-005	resistance tolerance	
AAF281-005	limiting element voltage (a	c)
AAJ010-001	rated voltage	

AAE003-006 adjustability type

Subclasses

AAA090-001 Fixed resistors AAA100-003 Variable resistors

AAA090-002 02

Fixed resistors

FIX

A set of fixed resistors of which each resistor can be described with the same group of data element types.

NOTE

FIXED RESISTORS are resistors designed so that their main property cannot be varied by mechanically changing the spatial relationship of their parts.

Properties

AAE115-005	maximum surface temperature
AAF266-005	inductance level
AAF349-001	insulation resistance
AAF350-001	temperature coefficient

AAE114-007 linearity of a fixed resistor

Subclasses AAA091-001 Fixed linear resistors

AAA094-001 Fixed non-linear resistors

AAA091-002 02

Fixed linear resistors

LIN

A set of fixed linear resistors of which each resistor can be described with the same group of data element types.

NOTE

FIXED LINEAR RESISTORS are fixed resistors in which the voltage across the terminals is proportional to the current passing through it.

Properties

AAE113-005 temperature coefficient AAE116-005 resistive material AAE119-005 resistance AAE621-005 resistor noise index AAF463-001 toleranced resistance

AAF101-006 multiplicity

Subclasses

AAA092-001	Single linear resistors
AAA093-002	Linear resistor networks

AAA092-001 02

Single linear resistors

A set of single linear resistors of which each resistor can be described with the same group of data element types.

SIN

NOTE

SINGLE LINEAR RESISTORS are linear resistors of which each device contains only one linear resistor.

AAJ003-001 single resistor type

Su-classes

AAA509-001	Fixed precision resistors
AAA510-001	Fixed power resistors
AAA511-001	Fixed low-power resistors
AAA512-001	Fixed chip resistors
AAA513-001	Fixed thermostat resistors
AAA514-001	Fixed fusing resistors

AAA093-002 01

Linear resistor networks

A set of linear resistor networks of which each resistor network can be described with the same group of data element types.

NOTE

LINEAR RESISTORS NETWORKS are linear resistors of which each device consists of, includes, or involves more than one linear resistor.

Properties

AAE106-005 number of functions AAF102-005 resistor interconnection

AAA094-001 02

Fixed non-linear resistors

NLN

MUL

A set of fixed non-linear resistors of which each resistor can be described with the same group of data element types.

NOTE

FIXED NON-LINEAR RESISTORS are fixed resistors in which the voltage across the terminals is not proportional to the current passing through it. [IEC 60050(811-27-16) (1991)]

AAE122-005 resistance dependency

Subclasses

AAA095-001 Light dependent resistors AAA096-002 Temperature dependent resistor AAA099-001 Voltage dependent resistors LDR

AAA095-001 02

Light dependent resistors

A set of light dependent resistors of which each resistor can be described with the same group of data element types.

NOTE

LIGHT DEPENDENT RESISTORS are resistors of which the resistance value decreases when it is exposed to electromagnetic radiation (usually in the visible region of the spectrum).

Properties

AAE123-005 dark resistance AAE124-005 light resistance AAE617-005 LDR recovery rate

AAA096-002 01

Temperature dependent resistor TDR

A set of temperature dependent resistors of which each resistor can be described with the same group of data element types.

NOTE

TEMPERATURE DEPENDENT RESISTORS are resistors of which the resistance value changes when the temperature is changed.

Properties

AAE127-005	resistance at 25 Cel
AAE130-005	dissipation factor
AAE131-005	thermal time constant
AAE625-005	thermistor current
AAJ073-001	thermal time-constant (power)

AAE126-005 thermistor type

Subclasses

AAA097-001	NTC thermistors
AAA098-002	PTC thermistors

AAA097-001 02

NTC thermistors

NTC

A set of NTC thermistors of which each thermistor can be described with the same group of data element types.

NOTE

NTC THERMISTORS are thermistor in which the zero-power resistance decreases with increasing temperature.

Properties

AAE132-005	thermal sensitivity index B25/85
AAE616-005	thermal sensitivity index B25/75
AAF282-005	thermal sensitivity tolerance

AAA098-002 01

PTC thermistors PTC

A set of PTC thermistors of which each thermistor can be described with the same group of data element types.

NOTE

PTC THERMISTORS are thermistors which show a significant increase in zero-power resistance with increasing temperature over part of their operating temperature range.

Properties

•	
AAE135-005	heat capacity
AAE136-005	trip current
AAE137-005	non-trip current
AAE138-005	switching temperature
AAE618-005	PTC application
AAE619-005	PTC peak inrush current
AAE620-005	PTC peak current
AAE626-005	PTC switching resistance
AAE629-005	PTC residual current
AAJ060-001	rated voltage
AAJ061-001	maximum operating voltage
AAJ062-001	maximum current
AAJ063-001	power consumption

AAA099-001 02

Voltage dependent resistors

A set of voltage dependent resistors of which each resistor can be described with the same group of data element types.

NOTE

VOLTAGE DEPENDENT RESISTORS are resistors of which the resistance value has a very large variation depending on the applied voltage.

Properties

AAE298-005	non-rep varistor peak current
AAE319-005	maximum clamping voltage
AAE334-005	varistor voltage at 1 mA
AAE429-005	varistor capacitance
AAE430-005	energy absorbing capacity max

AAA100-003 01

Variable resistors

VAR

VDR

A set of variable resistors of which each resistor can be described with the same group of data element types.

NOTE

VARIABLE RESISTORS are resistors designed so that their main property can be varied by mechanically changing the spatial relationship of their parts.

Properties

AAE113-005	temperature coefficient
AAE116-005	resistive material
AAE119-005	resistance

AAE146-005 ganging tolerance AAE172-005 ganging number

AAE139-005 number of terminals

Subclasses

AAA101-001	Two-terminal variable resistors
AAA102-002	Potentiometers

AAA101-001 02

Two-terminal variable resistors TT

A set of two-terminal variable resistors of which each resistor can be described with the same group of data element types.

NOTE

TWO-TERMINAL VARIABLE RESISTORS are variable resistors having one moving contact and one fixed termination (for example a rheostat), distinguishing them from other variable resistors with at least three terminations (potentiometers).

AAA102-002 01

Potentiometers

РОТ

A set of potentiometers of which each potentiometer can be described with the same group of data element types.

NOTE

POTENTIOMETERS are components for use as voltage dividers with three terminations of which two are connected to the ends of a resistive element and the third to a moving contact which can be moved mechanically along the resistive element.

Properties

AAE141-005 resistance law (IEC) AAE142-005 actuator type AAE144-005 mounting position AAF014-005 driving feature

AAJ006-002 adjustability type

Subclasses

AAA607-001	Rotary precision potentiometers
AAA608-001	Power rotary potentiometers
AAA609-001	Low-power rotary potentiometers
AAA516-002	Preset potentiometers
AAA517-001	Slide potentiometers

AAA103-001 02

Sensors

SEN

A set of sensors of which each sensor can be described with the same group of data element types.

NOTE SENSORS are electric signal transducers that convert a signal of any kind into an electric signal.

AAE892-005 sensor input quantity

Subclasses

AAA104-001	Humidity sensors
AAA105-001	Light sensors
AAA106-001	Magnetic field sensors
AAA107-001	Nuclear sensors
AAA108-001	Pressure sensors
AAA109-001	Proximity sensors
AAA110-001	Temperature sensors

AAA104-001 02

Humidity sensors

HUM

A set humidity sensors of which each sensor can be described with the same group of data element types.

NOTE

HUMIDITY SENSORS are sensors operating on humidity, i.e. mass of water vapour divided by the volume of the gaseous mixture.Actual humidity by volume, divided by humidity by volume at saturation, at the same temperature.

Properties

AAE857-005	operating humidity
AAE858-005	storage humidity
AAE860-005	reference capacitance
AAE861-005	sensitivity

AAA105-001 02

Light sensors

LGT

A set of light sensors of which each sensor can be described with the same group of data element types.

NOTE

LIGHT SENSORS are sensors operating on light; i.e. any optical radiation capable of causing a visual sensation directly.

AAA106-001 02

Magnetic field sensors

MGN

A set of magnetic filed sensors of which each sensor can be described with the same group of data element types.

NOTE

MAGNETIC FIELD SENSORS are sensors operating on magnetic fields.

Properties

AAE862-005	open-circuit sensitivity
AAE863-005	magnetic field strength

NCL

02

PRS

AAA107-001 02

Nuclear sensors

A set of nuclear sensors of which each sensor can be described with the same group of data element types.

NOTE

NUCLEAR SENSORS are sensors operating on radiation released during reactions taking place in atomic nuclei.

AAA108-001

Pressure sensors

A set of pressure sensors of which each sensor can be described with the same group of data element types.

NOTE

PRESSURE SENSORS are sensors operating on pressure; i.e. force divided by area.

Properties

AAE864-005 pressure mode AAE865-005 sensitivity AAE866-005 operating pressure

AAA109-001 02

Proximity sensors

PRX

A set of proximity sensors of which each sensor can be described with the same group of data element types.

NOTE

PROXIMITY SENSORS are sensors operating on proximity, i.e. nearness in space.

Properties

AAE867-005 output current AAE868-005 substrate temperature AAE869-005 hysteresis in switching distance AAE870-005 substrate length AAE871-005 substrate width AAE872-005 operating frequency

AAA110-001 02

Temperature sensors

тмр

A set of temperature sensors of which each sensor can be described with the same group of data element types.

NOTE

TEMPERATURE SENSORS are sensors operating on temperature, i.e.intensity of heat.

Properties

AAE874-005 reference resistance AAE875-005 resistance ratio R_Tamb/R_Tref AAE876-005 temperature coefficient

TFM

AAA111-001 02

Transformers

A set of transformers of which each transformer can be described with the same group of data element types.

NOTE

TRANSFORMERS are static pieces of apparatus with two or more windings which, by electromagnetic induction, transforms a system of alternating voltage and current into another voltage and current usually of different values at the same frequency.

Properties

AAE151-005 winding configuration AAE155-005 insulation resistance AAF047-005 screening AAF090-005 dc resistance

AAE152-005 power/signal

Subclasses

AAA112-001 Power transformers AAA115-002 Signal transformers

AAA112-001 02

Power transformers

POW

A set of power transformers of which each transformer can be described with the same group of data element types.

NOTE

POWER TRANSFORMERS are transformers designed for the purpose of handling energy.

Properties

AAE158-005	clearance to earth
AAE159-005	creepage distance
AAE160-005	nominal output current
AAE163-005	input voltage
AAE165-005	output power
AAE166-005	operating frequency
AAF048-005	number of primary coils
AAF098-005	power transformer application
AAF099-005	number of secondary coils

AAE003-006 adjustability type

Subclasses AAA113-001 Fixed power transformers AAA114-001 Variable power transformers

AAA113-001 02

Fixed power transformers

A set of fixed power transformers of which each transformer can be described with the same group of data element types.

FIX

NOTE

FIXED POWER TRANSFORMERS are power transformers designed so that their main property cannot be changed by the spatial relationship of their parts.

Properties

AAE164-005 no-load output voltage

AAA114-001 02

Variable power transformers VAR

A set of variable power transformers of which each transformer can be described with the same group of data element types.

NOTE

VARIABLE POWER TRANSFORMERS are power transformers designed so that their main property can be varied by mechanically changing the spatial relationship of their parts.

Properties

AAE167-005 transformer model AAE168-005 maximum output current AAE169-005 output voltage AAE170-005 brush life AAE171-005 brush life expectation AAE172-005 ganging number AAE173-005 total mechanical rotation

AAA115-002 01

Signal transformers

A set of signal transformers of which each transformer can be described with the same group of data element types.

SIG

FIX

NOTE SIGNAL TRANSFORMERS are transformers designed for the purpose of handling a signal.

Properties

AAE156-005 upper frequency AAE157-005 lower frequency AAJ075-001 signal transformer type

AAE003-006 adjustability type

Subclasses

AAA116-001 Fixed signal transformers AAA117-001 Variable signal transformers

AAA116-001 02

Fixed signal transformers

A set of fixed signal transformers of which each transformer can be described with the same group of data element types.

NOTE

FIXED SIGNAL TRANSFORMERS are signal transformers designed so that their main property cannot be changed by the spatial relationship of their parts.

AAA117-001 02

Variable signal transformers VAR

A set of variable signal transformers of which each transformer can be described with the same group of data element types.

NOTE

VARIABLE SIGNAL TRANSFORMERS are signal transformers designed so that their main property can be varied by mechanically changing the spatial relationship of their parts.

AAA118-001 02

Transistors

TRA

RIP

A set of transistors of which each transistor can be described with the same group of data element types.

NOTE

TRANSISTORS are semiconductor devices capable of providing power amplification and having three or more terminals.

Properties

AAE337-005	junction temperature
AAE487-005	frequency band
AAE490-005	modulation method
AAE494-005	nearest conventional type
AAE637-005	transistor package
AAE968-005	complementary type
AAF275-002	junction stress temperature

AAE401-005 transistor technology

Subclasses

AAA119-001 Bipolar transistors AAA126-001 Field-effect transistors

AAA119-002 02

Bipolar transistors

A set of bipolar transistors of which each transistor can be described with the same group of data element types.

NOTE

BIPOLAR TRANSISTORS are transistors having at least two junctions and whose functioning depends on both minority carriers and majority carriers (of opposite electric charge).

Properties

AAE402-005dc current gainAAE405-005collector current (dc) maxAAE407-005collector current peak valueAAE413-005collector-emitter voltage V_CEAAE414-005collector-emitter voltage V_CEAAE415-005collector-emitter peak voltageAAE416-005collector-emitter sat voltageAAE417-005collector-base voltage V_CBOAAE420-005collector capacitanceAAE421-005feedback capacitance

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AAE425-005	transition frequency
AAE638-005	transistor polarity
AAE640-005	collector current ratio
AAE641-005	collector saturation current
AAF066-005	collector-emitter breakdown voltage
AAF109-005	collector cut-off current I_CB
AAF110-005	emitter cut-off current I_EBO
AAF112-005	emitter-base voltage V_EBO
AAF113-005	collector-emitter voltage V_CE
AAF114-005	base-emitter saturation voltage
AAF115-005	collector cut-off current I_CE
AAF116-005	collector-base capacitance
AAF117-005	emitter-base input capacitance

AAE971-007 signal handling type

Subclasses

AAA120-001 Bipolar power transistors AAA123-001 Bipolar small signal transisto

AAA120-002 02

Bipolar power transistors

POWT

A set of bipolar power transistors of which each transistor can be described with the same group of data element types.

NOTE

BIPOLAR POWER TRANSISTORS are bipolar transistors, designed for power-signal applications, having a thermal resistance between junction and mounting base of 15 K/W or less.

Properties

AAE336-005 mounting base temperature AAE422-005 output power AAE424-005 power gain

AAF146-005 frequency application

Subclasses

AAA121-001	Bipolar If power transistors
AAA122-001	Bipolar rf power transistors

AAA121-001 02

Bipolar LF power transistors LF

or transistors of which

A set of bipolar LF power transistors of which each transistor can be described with the same group of data element types.

NOTE

BIPOLAR LF POWER TRANSISTORS are bipolar power transistors designed for use with baseband unmodulated signals, for example audio, video and switching signals.

Properties

AAF055-005	delay (off) time
AAF056-005	delay (on) time
AAF057-005	fall time
AAF058-005	rise time
AAF059-005	turn-off time
AAF060-005	turn-on time

AAA122-001 02

Bipolar RF power transistors RF

A set of bipolar RF power transistors of which each transistor can be described with the same group of data element types.

NOTE

BIPOLAR RF POWER TRANSISTORS are bipolar power transistors designed for use with signals modulated on a radio-frequency carrier.

Properties

AAE707-005 peak envelope power PEP AAE711-005 intermodulation distortion d_im AAE712-005 intermodulation distortion d_3 AAE714-005 synchronous output power AAE715-005 efficiency

AAA123-002 02

Bipolar small signal transisto SIGT

A set of bipolar small-signal transistors of which each transistor can be described with the same group of data element types.

NOTE

BIPOLAR SMALL SIGNAL TRANSISTORS are bipolar transistors, designed for small-signal applications, having a thermal resistance between junction and mounting base of more than 15 K/W.

Properties

i i operties	
AAE106-005	number of functions
AAE410-005	small-signal current gain
AAE418-005	difference base-emitter voltage
AAE426-005	cut-off frequency
AAE642-005	differential current change
AAE644-005	differential voltage change
AAE647-005	average noise figure
AAE648-005	spot noise figure

AAF146-005 frequency application

Subclasses

AAA124-001	Bipolar If small signal transi
AAA125-001	Bipolar rf small signal transi

AAA124-001 02

Bipolar LF small signal transistors LF

A set of bipolar LF small-signal transistors of which each tansistor can be described with the same group of data element types.

NOTE

BIPOLAR LF SMALL SIGNAL TRANSISTORS are bipolar small signal transistors designed for use with baseband unmodulated signals, for example audio, video and switching signals.

Properties

AAF055-005 delay (off) time

AAF056-005	delay (on) time
AAF057-005	fall time
AAF058-005	rise time
AAF059-005	turn-off time
AAF060-005	turn-on time

AAA125-001 02

Bipolar RF small signal transistors RF

A set of bipolar RF small-signal transistors of which each transistor can be described with the same group of data element types.

NOTE

BIPOLAR RF SMALL SIGNAL TRANSISTORS are bipolar small signal transistors designed for use with signals modulated on a radio-frequency carrier.

Properties

AAE711-005 intermodulation distortion d_im AAE712-005 intermodulation distortion d_3 AAE713-005 unilateral power gain

AAA126-002 02

Field-effect transistors

FET

A set of field-effect transistors of which each transistor can be described with the same group of data element types.

NOTE

FIELD-EFFECT TRANSISTORS are transistors in which the current flowing through a conductor channel is controlled by an electric field arising from a voltage applied between the gate and source terminals.

Properties

AAE364-005	gate type
AAE366-005	channel type
AAE368-005	drain current (dc)
AAE370-005	drain current (dc)
AAE371-005	drain cut-off current
AAE372-005	gate cut-off current
AAE373-005	source cut-off current
AAE374-005	common-mode rejection ratio
AAE377-005	drain-source voltage limit
AAE379-005	drain-substrate voltage limit
AAE384-005	gate-source threshold voltage
AAE386-005	gate-source cut-off voltage
AAE387-005	source-substrate voltage limit
AAE390-005	feedback capacitance
AAE391-005	drain-source on-state resistance
AAE393-005	drain-source on-state resistance
AAE394-005	drain-source off-state resistance
AAE396-005	transfer admittance
AAE655-005	input capacitance at gate
AAE656-005	transfer conductance
AAE982-005	input capacitance
AAE983-005	output capacitance
AAF118-005	gate-source voltage limit

Subclasses

AAA127-001 Field-effect power transistors AAA130-001 Field-effect small signal tran

AAA127-002 02

Field-effect power transistors POWT

A set of field-efect transistors of which each transistor can be described with the same group of data element types.

NOTE

FIELD-EFFECT POWER TRANSISTORS are fieldeffect transistors designed for power-signal applications, having a thermal resistance between junction and mounting base of 15 K/W or less.

Properties

AAE336-005 mounting base temperature

AAF146-005 frequency application

Subclasses

AAA128-001	Field-effect If power transistors
AAA129-001	Field-effect rf power transistors

AAA128-001 02

Field-effect LF power transistors LF

A set of field-effect LF power transistors of which each transistor can be described with the same group of data element types.

NOTE

FIELD-EFFECT LF POWER TRANSISTORS are field-effect power transistors designed for use with baseband unmodulated signals, for example audio, video and switching signals.

Properties

AAE976-005 rise time AAE977-005 fall time AAE978-005 turn-on time AAE979-005 turn-off time AAE980-005 delay (on) time AAE981-005 delay (off) time

AAA129-001 02

Field-effect RF power transist RF

A set of field-effect RF power transistors of which each transistor can be described with the same group of data element types.

NOTE

FIELD-EFFECT RF POWER TRANSISTORS are field-effect transistors designed for use with signals modulated on a radio-frequency carrier.

AAA130-001 02

Field-effect small signal transistors SIGT

A set of field-effect small-signal transistors of which each transistor can be described with the same group of data element types.

NOTE

FIELD-EFFECT SMALL SIGNAL TRANSISTORS are field-effect transistors designed for small-signal applications, having a thermal resistance between junction and mounting base of more than 15 K/W.

Properties

AAE380-005	equivalent noise voltage
AAE383-005	gate-source voltage difference
AAE389-005	thermal drift gate-source voltage
AAE657-005	spot noise figure
AAE716-005	difference in penetration factor
AAE717-005	difference in transfer impedance
AAE973-005	FET-technology
AAE976-005	rise time
AAE977-005	fall time
AAE978-005	turn-on time
AAE979-005	turn-off time
AAE980-005	delay (on) time
AAE981-005	delay (off) time

AAA131-001 02

Trigger devices

TRG

A set of trigger devices of which each device can be described with the same group of data element types.

NOTE

TRIGGER DEVICES are bistable semiconductor devices comprising three or more junctions which can be switched from the off-state to the on-state or vice versa.

Properties

AAE331-005	diode package
AAE336-005	mounting base temperature
AAE337-005	junction temperature
AAF275-002	junction stress temperature

AAE724-005 trigger device function

Diacs
Thyristors
Triacs

- 59 -

AAA132-001 02

Diacs DIA

A set of diacs of which each diac can be described with the same group of data element types.

NOTE

DIACS are bi-directional diode thyristors: twoterminal trigger devices having substantially the same behaviour in the first and third guadrants of the principal characteristic. IEC 60747-6 (2000)

Properties

AAE293-005	repetitive peak forward current
AAE725-005	breakover voltage
AAE726-005	output voltage

AAA133-001 02

Thyristors

THY

A set of thyristors of which each thyristor can be described with the same group of data element types.

NOTE

THYRISTORS are three-terminal trigger devices having a different behaviour in the first and third quadrants of the principal characteristic.

Properties

AAE276-005 reverse current AAE305-005 Joule-integral AAE728-005 rms on-state current AAE729-005 repetitive peak on-state current AAE730-005 non-rep peak on-state current AAE732-005 gate trigger current AAE738-005 off-state voltage AAE739-005 repetitive peak off-state voltage AAE740-005 rate of rise of off-state voltage AAE742-005 gate trigger voltage AAE744-005 average on-state current AAF135-005 off-state current AAF136-005 holding current AAF137-005 latching current

AAE743-005 thyristor function

Subclasses

AAA134-001	Fast turn-off thyristors
AAA135-001	Gate turn-off thyristors
AAA136-001	Reverse blocking thyristors

AAA134-001 02

Fast turn-off thyristors

FTO

A set of fast turn-off thyristors of which each thyristor can be described with the same group of data element types.

NOTE

FAST TURN-OFF THYRISTORS are thyristors in which the current may be turned on or off in times of the order of $1\mu s$

Properties

AAE734-005 rate of rise on-state current AAE747-005 commutated turn-off time

AAA135-001 02

Gate turn-off thyristors

GTO

A set of gate turn-off thyristors of which each thyristor can be described with the same group of data element types.

NOTE

GATE TURN-OFF THYRISTORS are thyristors which can be switched from the on-state to the off-state and vice versa by applying control signals of appropriate polarity to the gate terminal.

Properties

AAE745-005 controllable anode current AAE746-005 fall time

AAA136-001 02

Reverse blocking thyristors

RVB

A set of reverse blocking thyristors of which each thyristor can be described with the same group of data element types.

NOTE

REVERSE BLOCKING THYRISTORS are unidirectional thyristors that switch for positive anode voltages and exhibit a reverse blocking state for negative anode voltages.

Properties

AAE300-005	repetitive peak reverse voltage
AAE734-005	rate of rise on-state current
AAE748-005	cathode-gate to cathode current
AAE749-005	anode-gate to anode current
AAE750-005	cathode-gate trigger voltage
AAE751-005	anode-gate to anode voltage

AAA137-001 02

Triacs

TRI

A set of triacs of which each triac can be described with the same group of data element types.

NOTE

TRIACS are bi-directional triode thyristors: threeterminal trigger-devices having substantially the same switching behaviour in the first and third quadrants of behaviour in the first and third quadrants of the principal characteristic. [IEC 60747-6 (2000]

Properties

AAE276-005 reverse current AAE305-005 Joule-integral AAE728-005 rms on-state current AAE729-005 repetitive peak on-state current AAE730-005 non-rep peak on-state current AAE732-005 gate trigger current

AAE734-005rate of rise on-state currentAAE738-005off-state voltageAAE739-005repetitive peak off-state voltageAAE740-005rate of rise of off-state voltageAAE741-005rate of rise commutating voltageAAE742-005gate trigger voltageAAE7135-005off-state currentAAF136-005holding currentAAF137-005latching current

AAA138-001 02

TUB

A set of tubes of which each tube can be described with the same group of data element types.

NOTE

Tubes

TUBES are electronic devices in which conduction takes place by electrons or ions between electrodes through a vacuum or gaseous medium within a gas tight envelope, but excluding devices used only for lighting. IEC 60050(531) (1974)

Properties

AAE579-005 heater voltage AAE580-005 heater current

AAE696-005 tube type

Subclasses

AAA139-001	Display tubes
AAA142-001	Gas filled tubes
AAA143-001	Photo sensitive tubes
AAA144-001	Space charge controlled tubes
AAA145-001	Space charge wave tubes

AAA139-001 02

Display tubes

CRT

A set of display tubes of which each tube can be described with the same group of data element types.

NOTE

DISPLAY TUBES are signal-to-image converter tubes in which a well-defined and controllable beam of electrons is produced and directed on to a surface to give a visible or otherwise detectable display or effect. IEC 60050(531) (1974)

Properties

AAE581-005	overall length
AAE588-005	deflection angle
AAE589-005	neck diameter
AAE590-005	anode voltage
AAE592-005	screen diagonal
AAE593-005	useful screen horizontal
AAE594-005	useful screen vertical
AAE595-005	tube size (cm)
AAE596-005	glass transmission
AAE598-005	base type
AAE605-005	phosphor code
AAE606-005	application code
AAE804-005	screen curvature radius
AAF203-005	anode current average

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AAF204-005	anode current peak
AAF205-005	vertical resolution
AAF271-005	screen shape
AAF272-005	tube size (inch)
AAF315-005	anode voltage limiting

AAF202-005 chromaticity

Subclasses

AAA140-001 Colour display tubes AAA141-001 Monochrome display tubes

AAA140-001 02

Colour display tubes

A set of colour display tubes of which each tube can be described with the same group of data element types.

COL

NOTE

COLOUR DISPLAY TUBES are display tubes which can produce images in colour by varying the relative intensity of excitation of three screen phosphors of different chromaticity.

Properties

AAE584-005 grid 2 voltage for cut-off AAE585-005 focusing voltage AAE591-005 cathode voltage for cut-off AAE805-005 pixel pitch horizontal AAE806-005 horizontal resolution AAF314-005 focusing voltage limiting

AAA141-001 02

Monochrome display tubes MCR

A set of monochrome display tubes of which each tube can be described with the same group of data element types.

NOTE

MONOCHROME DISPLAY TUBES are display tubes which can produce images of only one chromaticity, usually determined by a screen phosphor with a single pair of colour coordinates.

Properties

AAE578-005 grid 1 voltage for cut-off AAE586-005 focusing voltage AAE603-005 cathode voltage for cut-off AAF206-005 grid 2 voltage

AAA142-001 02

Gas filled tubes

GAS

A set of gas filled tubes of which each tube can be described with the same group of data element types.

NOTE GAS FIL

GAS FILLED TUBES are electronic tubes in which the electrical characteristics are substantially established by the ionisation of deliberately introduced gas or vapour. PHO

AAA143-001 02

Photo sensitive tubes

A set of photo sensitive tubes of which each tube can be described with the same group of data element types.

NOTE

PHOTO SENSITIVE TUBES are tubes the functioning of which is determined by the photoelectric effect.

AAA144-001 02

Space charge controlled tubes SCC

A set of space charge control tubes of which each tube can be described with the same group of data element types.

NOTE

SPACE CHARGE CONTROLLED TUBES are electronic tubes whose mode of operation is based on the control of space-charge-limited current by electrode voltages.

AAA145-001 02

Space charge wave tubes

SCW

A set of space charge wave tubes of which each tube can be described with the same group of data element types.

NOTE

SPACE CHARGE WAVE TUBES are vacuum tubes the functioning of which is based on the conversion of energy by interaction of electromagnetic fields with space-charge waves of an electron beam.

AAA146-001 02

Tuners

TUN

A set of tuners of which each tuner can be described with the same group of data element types.

NOTE

TUNERS are packaged units capable of producing only the first portion of the functions of a receiver and delivering either radio-frequency, intermediatefrequency, or demodulated information to some other equipment.

AAA147-002 02

Electromechanical components EM

A set of electromechanical components of which each component can be described with the same group of data element types.

NOTE

ELECTROMECHANICAL COMPONENTS are components utilizing electromagnetic energy of which the operation involves mechanical motion.

Properties

AAE007-005	terminal shape
AAE008-005	terminal placement
AAE023-005	terminal diameter
AAE024-005	terminal pitch
AAE027-005	mounted height
AAE072-005	terminal length
AAE149-005	safety approval
AAE257-005	power dissipation
AAE259-005	shape/size code BSI
AAE347-005	CECC specification
AAE540-005	current rms
AAE633-005	lacquered length
AAE634-005	terminal material
AAE754-005	number of terminals
AAE785-005	signal type
AAE841-005	storage temperature
AAE891-005	ambient temperature
AAE987-005	power consumption
AAF316-001	hole pitch
AAF317-001	flange length
AAF319-001	flange height
AAF320-001	body diameter
AAF321-001	pitch (x-axis)
AAF322-001	pitch (y-axis)
AAF337-001	pitch circle diameter
AAF338-001	terminal breadth
AAF339-001	terminal thickness
AAF340-001	offset (y-axis)
AAF341-001	offset (x-axis)
AAF342-001	flange diameter
AAF343-001	mounting method
AAF344-001	body shape
AAF345-001	terminal exit position SMD
AAF346-001	terminal exit position non-SMD
AAF347-001	terminal shape non-SMD
AAF348-001	terminal shape SMD
AAF351-001	number of holes
AAF352-001	basic aspect
AAF373-001	number of studs
AAF374-001	number of pitches (x-axis)
AAF375-001	number of pitches (y-axis)
AAF376-001	terminal cross-section shape

AAE060-005 category EM component

Subclasses AAA148-001 Connectors AAA610-001 Connector parts AAA149-002 Fuses AAA150-001 Loudspeakers AAA159-001 Microphones AAA160-001 Motors AAA171-001 Relays AAA172-001 Switches

AAA148-002 01

Connectors

CON

A set of connectors of which each connector can be described with the same group of data element types.

NOTE

CONNECTORS are components which terminate conductors for the purpose of providing connection and disconnection to a suitable mating component.

Properties

AAE155-005	insulation resistance
AAE159-005	creepage distance
AAE345-005	female entry
AAE348-005	pinning arrangement
AAE350-005	contact finish
AAE351-006	housing material
AAE352-005	terminal-to-contact angle
AAE353-005	contact sex
AAE354-005	polarisation
AAE355-005	contact body material
AAE356-005	connector shape
AAE357-005	performance class
AAE358-005	contact current max
AAE359-005	number of contacts
AAE360-005	number of rows
AAE361-005	mechanical endurance
AAE362-005	connector opening
AAE363-005	contact length under housing
AAE920-005	contact resistance
AAF045-005	engaging force
AAF046-005	separating force
AAF051-005	locking device
AAF053-005	terminal length beside housing
AAF124-005	integrated component
AAF125-005	contact spring material
AAF126-005	UL flammability
AAF127-005	IEC flammability
AAF128-005	package colour
AAF148-005	socket type
AAF150-005	number of contacts per row
AAF434-001	bending radius
AAJ037-001	termination style
AAJ038-001	coupling style
AAJ039-001	contact pitch
AAJ042-001	connector rated voltage
AAJ043-001	connector rated current
AAJ044-001	connector diameter

AAE349-006 connector type

Subclasses

AAA518-001	Circular connectors
AAA519-001	Rectangular connectors
AAA520-001	PCB connectors
AAA521-001	RF connectors
AAA522-001	Connectors for IC cards
AAA523-001	Modular connectors
AAA526-001	Plugs and jacks
AAA527-001	Sockets
AAA528-001	Terminals

FUS

AAA149-002 01

Fuses

A set of fuses of which each fuse can be described with the same group of data element types.

NOTE

FUSES are devices that, by the fusing of one or more of their specially-designed and proportioned components, open the circuit in which they are inserted by breaking the current when this exceeds a given value for a sufficient time. The fuse comprises all the parts that form the complete device. IEC 60050(441) (1984)

Properties

AAE519-005	nominal voltage
AAE523-005	Joule-integral
AAE524-005	speed
AAE525-005	rated current
AAF122-005	rated breaking capacity
AAF123-005	voltage drop
AAJ034-001	fuse pre-arcing time

AAJ012-002 fuse type

Subclasses

AAA575-001	Current-activated fuses
AAA576-001	Thermally-activated fuses

AAA150-001 02

Loudspeakers

LSP

A set of loudspeakers of which each loudspeaker can be described with the same group of data element types.

NOTE

LOUDSPEAKERS are transducers by which acoustic waves are obtained from electric oscillation waves and designed to radiate acoustic power into the surrounding medium.

Properties

AAE338-005	maximum noise voltage
AAE339-005	upper rated frequency
AAE340-005	effective frequency f_e2
AAE341-005	effective frequency f_e1
AAF090-005	dc resistance
AAF193-005	sensitivity

AAE005-006 transducer principle

Subclasses

AAA151-001	Moving conductor loudspeakers
AAA152-001	Magnetodynamic loudspeakers
AAA153-001	lonic loudspeakers
AAA154-001	Electromagnetic loudspeakers
AAA155-001	Pneumatic loudspeakers
AAA156-001	Piezoelectric loudspeakers
AAA157-001	Electrostatic loudspeakers
AAA158-001	Magnetostrictive loudspeakers

AAA151-001 02

Moving conductor loudspeakers MVC

A set of moving conductor loudspeakers of which each loudspeaker can be described with the same group of data element types.

NOTE

MOVING CONDUCTOR LOUDSPEAKERS are loudspeakers that operate by the motion of a conductor or a coil, carrying a varying current, in a steady magnetic field.

Properties

AAE048-005maximum noise powerAAE049-005rated impedanceAAE050-005resonance frequencyAAE051-005centre pole diameterAAE053-005magnet materialAAE054-005baffle hole lengthAAE055-005frequency applicationAAE056-005baffle hole breadthAAE061-005shape of flange

AAA152-001 02

Magnetodynamic loudspeakers MGD

A set of magnetodynamic loudspeakers of which each loudspeaker can be described with the same group of data element types.

NOTE

MAGNETODYNAMIC LOUDSPEAKERS are loudspeakers that operate by the motion of a magnet attached to a diaphragm and activated by a current through a fixed coil.

AAA153-001 02

lonic loudspeakers

ION

A set of ionic loudspeakers of which each loudspeaker can be described with the same group of data element types.

NOTE

IONIC LOUDSPEAKERS are loudspeakers that operate by the interaction between an ionic plasma and the surrounding air.

AAA154-001 02

Electromagnetic loudspeakers ELM

A set of electromagnetic loudspeakers of which each loudspeaker can be described with the same group of data element types.

NOTE

ELECTROMAGNETIC LOUDSPEAKERS are loudspeakers that operate by the motion of a magnet, connected to the membrane, and actuated by a variable magnetic field.

AAA155-001 02

Pneumatic loudspeakers

PNM

A set of pneumatic loudspeakers of which each loudspeaker can be described with the same group of data element types.

NOTE

PNEUMATIC LOUDSPEAKERS are loudspeakers that operate by controlled variations of an air stream.

AAA156-001 02

Piezoelectric loudspeakers

A set of piezoelectric loudspeakers of which each loudspeaker can be described with the same group of data element types.

NOTE

PIEZOELECTRIC LOUDSPEAKERS are loudspeakers that operate by the piezoelectric properties of the material.

AAA157-001 02

Electrostatic loudspeakers

ELS

MIC

PXE

A set of electrostatic loudspeakers of which each loudspeaker can be described with the same group of data element types.

NOTE

ELECTROSTATIC LOUDSPEAKERS are loudspeakers that operate by electrostatic forces.

AAA158-001 02

Magnetostrictive loudspeakers MGS

A set of magnetostriction loudspeakers of which each loudspeaker can be described with the same group of data element types.

NOTE

MAGNETOSTRICTIVE LOUDSPEAKERS are loudspeakers that operate by the magnetostrictive properties of a material.

AAA159-001	02

Microphones

A set of microphones of which each microphone can be described with the same group of data element types.

NOTE

MICROPHONES are electroacoustical transducers by which electric signals are obtained from acoustical oscillations.

Properties

AAE340-005 effective frequency f_e2 AAE341-005 effective frequency f_e1 AAE533-005 input impedance

AAA160-001 02

Motors MOT

A set of motors of which each motor can be described with the same group of data element types.

NOTE

MOTORS are (electric) machines which converts electric energy into mechanical energy.

Properties

AAE174-005magnet typeAAE175-005coil connectionAAE176-005armature materialAAE177-005integrated componentAAE180-005electromotive forceAAE182-005input powerAAE517-005inductanceAAF090-005dc resistanceAAF131-005number of phases

AAE179-005 trajectory of motion

Subclasses

AAA161-001 Linear motors AAA166-001 Rotational motors

AAA161-001 02

Linear motors

LIN

AC

A set of linear motors of which each motor can be described with the same group of data element types.

NOTE

LINEAR MOTORS are electric motors that have been split and unrolled into two flat sheets, so that the motion between rotor and stator is linear rather than rotary.

Properties

AAF049-005 speed AAF132-005 travel AAF133-005 rated force

AAE178-005 supply current type

Subclasses

AAA162-001	Linear ac motors
AAA163-001	Linear dc motors
AAA164-001	Linear stepping motors
AAA165-001	Linear universal motors

AAA162-001 02

Linear ac motors

A set of linear ac motors of which each motor can be described with the same group of data element types.

NOTE

LINEAR AC MOTORS are linear motors designed essentially for application with an alternating current or voltage.

Properties

AAE184-005 rated input voltage (ac)

AAA163-001 02

Linear dc motors

DC

STP

A set of linear dc motors of which each motor can be described with the same group of data element types.

NOTES

LINEAR DC MOTORS are linear motors designed essentially for application with a direct current or voltage.

Properties

AAE186-005 rated input voltage (dc) AAE187-005 mechanical time constant

AAA164-001 02

Linear stepping motors

A set of linear stepping motors of which each motor can be described with the same group of data element types.

NOTE

LINEAR STEPPING MOTORS are linear motors, the rotor of which rotates in angular increments when the stator windings are energised in a programmed manner.

Properties

AAE203-005	current per phase
AAE204-005	rated input voltage (pulse)
AAE205-005	pull-in rate
AAE206-005	pull-out rate
AAF061-005	step length
AAF062-005	holding force

AAA165-001 02

Linear universal motors

UNI

A set of linear universal motors of which each motor can be described with the same group of data element types.

NOTE

LINEAR UNIVERSAL MOTORS are linear motors which can be operated by either direct current or single phase alternating current of normal supply frequencies.

AAA166-001 02

Rotational motors

ROT

A set of rotational motors of which each motor can be described with the same group of data element types.

NOTE

ROTATIONAL MOTORS are motors characterized by, turning about an axis.

Properties

AAE188-005	direction of rotation
AAE189-005	rotor inertia
AAE190-005	maximum radial force
AAE191-005	rated torque
AAE200-005	maximum axial force

AAE178-005 supply current type

Subclasses

AAA167-001	Rotational ac motors
AAA168-001	Rotational dc motors
AAA169-001	Rotational stepping motors
AAA170-001	Rotational universal motors

AAA167-001 02

Rotational ac motors

A set of rotational ac motors of which each motor can be described with the same group of data element types.

NOTE

ROTATIONAL AC MOTORS are rotational motors designed essentially for application with an alternating current or voltage.

Properties

AAE183-005 ac motor synchronism AAE184-005 rated input voltage (ac) AAE194-005 synchronous speed AAE195-005 rated speed AAE196-005 starting torque

AAA168-001 02

Rotational dc motors

DC

AC.

A set of rotational dc motors of which each motor can be described with the same group of data element types.

NOTE

ROTATIONAL DC MOTORS are rotational motors designed essentially for application with a direct current or voltage.

Properties

AAE186-005 rated input voltage (dc) AAE187-005 mechanical time constant AAE195-005 rated speed AAE197-005 rated input current AAE199-005 starting torque

AAA169-001 02

Rotational stepping motors STP

A set of rotational stepping motors of which each motor can be described with the same group of data element types.

NOTE

ROTATIONAL STEPPING MOTORS are rotational motors the rotor of which rotates in angular increments when the stator windings are energised in a programmed manner.

Properties

AAE201-005	pull-out torque
AAE202-005	pull-in torque
AAE204-005	rated input voltage (pulse)
AAE205-005	pull-in rate
AAE206-005	pull-out rate
AAE207-005	holding torque
AAE208-005	step angle

AAA170-001 02

Rotational universal motors UNI

A set of rotational universal motors of which each motor can be described with the same group of data element types.

NOTE

ROTATIONAL UNIVERSAL MOTORS are rotational motors which can be operated by either direct current or single phase alternating current of normal supply frequencies.

AAA171-001 02

Relays

REL

A set of relays of which each relay can be described with the same group of data element types.

NOTE

RELAYS are (electric) devices designed to close or open one or more electric circuits by means of separate contacts, after the appearance of certain conditions in the electric input circuits controlling the device. [IEC 60050(446) (1983)]

Properties

AE155-005	insulation resistance
AE350-005	contact finish
AE355-005	contact body material
AE506-005	switching function
AE508-005	sealing
AE509-005	U/I category
AE512-005	contact voltage (ac)
AE513-005	limiting contact voltage
AE515-005	contact current (ac)
AE907-005	stability
AAE911-005	energising current (dc)
AE912-005	energising current (ac)
AE915-005	energising voltage (dc)
AE916-005	energising voltage (ac)

AAE918-005 coil-contact capacitance AAE919-005 contact capacitance AAE920-005 contact resistance AAE921-005 number of contact assemblies AAE922-005 mechanical life AAE923-005 operate time AAE924-005 release time AAE925-005 contact member force AAE928-005 contact power (ac) AAE930-005 bounce time AAF048-005 number of primary coils AAF050-005 release voltage (ac) AAF090-005 dc resistance AAF106-005 contact current (dc) AAF107-005 contact voltage (dc) AAF125-005 contact spring material AAF129-005 release voltage (dc) AAF130-005 contact power (dc)

AAA172-001 02

Switches

SWI

A set of switches of which each switch can be described with the same group of data element types.

NOTE

SWITCHES are devices designed to close and open one or more electric circuits by means of separable contacts, under control of an external quantity. (derivation)

Properties

AAE155-005	insulation resistance
AAE208-005	step angle
AAE350-005	contact finish
AAE351-006	housing material
AAE355-005	contact body material
AAE506-005	switching function
AAE512-005	contact voltage (ac)
AAE513-005	limiting contact voltage
AAE515-005	contact current (ac)
AAE920-005	contact resistance
AAE921-005	number of contact assemblies
AAE922-005	mechanical life
AAE928-005	contact power (ac)
AAE929-005	number of stable positions
AAE930-005	bounce time
AAF106-005	contact current (dc)
AAF107-005	contact voltage (dc)
AAF125-005	contact spring material
AAF130-005	contact power (dc)
AAF134-005	integrated function

AAE926-005 actuating quantity

Subclasses

AAA173-001	Reed switches
AAA174-002	Mechanical switches
AAA175-001	Thermostatic switches

AAA173-001 02

Reed switches

A set of reed switches of which each switch can be described with the same group of data element types.

NOTE

REED SWITCHES are switches that have contacts mounted on ferromagnetic reeds (thin bars) sealed in a glass tube, designed for activation by an external magnetic field.

AAA174-002 01

Mechanical switches

MEC

RFF

A set of mechanical switches of which each switch can be described with the same group of data element types.

NOTE

MECHANICAL SWITCHES are switches actuated by an external mechanical force.

Properties

AAE931-006	switch actuation
AAE932-005	actuating force
AAJ064-001	number of poles
AAJ065-001	travel
AAJ066-001	angular travel
AAJ067-001	operating life
AAJ068-001	shaft style
AAJ069-001	shaft length
AAJ070-001	shaft diameter
AAJ071-001	additional features
AAJ072-001	sealing

AAA175-001 02

Thermostatic switches

THE

A set of thermostatic switches of which each switch can be described with the same group of data element types.

NOTE

THERMOSTATIC SWITCHES are switches whose function is controlled by variations of temperature and whose contacts make or break automatically a load circuit when the temperature of the ambient space in which their sensing element is placed or the temperature of the surface on which they are fixed reaches a predetermined value. [IEC 60050(581) (1978)]

AAA215-001 02

Magnetic parts

MP

A set of magnetic parts of which each part can be described with the same group of data element types.

NOTE

MAGNETIC PARTS are products consisting entirely of the same magnetic material except for possible coating or finishing of the surface.

AAE759-005 coercivity class

Subclasses

AAA216-001 Hard-magnetic parts AAA217-001 Soft-magnetic parts

AAA216-001 02

Hard-magnetic parts

HRD

A set of hard-magnetic parts of which each part can be described with the same group of data element types.

NOTE HARD-MAGNETIC PARTS are magnetic parts having a high coercivity.

AAA217-001 02

Soft-magnetic parts

SFT

A set of soft-magnetic parts of which each part can be described with the same group of data element types.

NOTE

SOFT-MAGNETIC PARTS are magnetic parts having a low coercivity.

Properties

AAE764-005soft magnetic material gradeAAE765-005core size codeAAE766-005core shapeAAE770-005inductance factorAAE771-005effective permeabilityAAE775-005total power lossAAE776-005effective magnetic path lengthAAE777-005core factor C_1AAE778-005(air) gap lengthAAE782-005effective cross-sectional areaAAF283-005minimum cross-sectional areaAAF309-005accessory name

AAA218-001 02

Materials

MA

A set of materials of which each material can be described by the same set of data element types.

NOTE

MATERIALS are products intended for further physical processing including chemical and nuclear processing, during which their geometry or composition will change.

Properties

AAF286-005 density

AAF311-006 material type

Subclasses AAA219-001 Acoustic materials AAA231-001 Dielectric and insulating materialsAAA220-001 Magnetic materialsAAA223-001 Optical materialsAAA230-001 Printed wiring laminatesAAA224-001 Thermal materials

AAA219-001 02

Acoustic materials

ACO

A set of acoustic materials of which each material can be described by the same set of data element types.

NOTE ACOUSTIC MATERIALS are materials related to, containing, proceeding, arising from, actuated by, or carrying sound.

AAA220-001 02

Magnetic materials

MG

A set of magnetic materials of which each material can be described by the same set of data element types.

NOTE

MAGNETIC MATERIALS are materials exhibiting ferromagnetism.

Properties

AAE760-005 resistivity AAE761-005 Curie temperature

AAE759-005 coercivity class

Subclasses

AAA221-001 Hard magnetic materials AAA222-001 Soft magnetic materials

AAA221-001 02

Hard magnetic materials

HRD

A set of hard magnetic materials of which each material can be described by the same set of data element types.

NOTE

HARD-MAGNETIC MATERIALS are materials exhibiting ferromagnetism having a high coercivity.

Properties

AAE762-005 hard magnetic material grade coercivity H_cB AAF287-005 AAF288-005 coercivity H cJ field strength at (BH) max AAF289-005 AAF290-005 saturation field strength AAF291-005 temperature coefficient H cJ AAF292-005 remanent flux density AAF293-005 flux density at (BH)_max AAF294-005 recoil permeability AAF295-005 BH product max AAF296-005 B_r x H_cJ product AAF297-005 temperature coefficient Br

AAA222-001 02

Soft magnetic materials SFT

A set of soft magnetic materials of which each material can be described by the same set of data element types.

NOTE

SOFT-MAGNETIC MATERIALS are materials exhibiting ferromagnetism having a low coercivity.

Properties

AAE764-005	soft magnetic material grade
AAE769-005	magnetic flux density
AAE772-005	initial permeability
AAE773-005	amplitude permeability
AAF298-005	loss factor
AAF299-005	disaccommodation factor
AAF300-005	specific total loss
AAF306-005	hysteresis material constant
AAF307-005	temperature factor of permeability
AAF308-005	saturation flux density

AAA223-001 02

Optical materials

A set of optical materials of which each material can be described by the same set of data element types.

NOTE

OPTICAL MATERIALS are materials which are transparent to light or to infra-red, ultra violet or Xray radiation, such as glass and certain single crystals, polycrystalline.

AAA224-001 02

Thermal materials

ΤН

A set of thermal materials of which each material can be described by the same set of data element types.

NOTE

THERMAL MATERIALS are materials that can be used to convert thermal energy into electric energy or provides refrigeration directly from electric energy.

AAA225-001 02

Deflection units

DFL

A set of deflection units of which each deflection unit can be described by the same set of data element types.

NOTE

DEFLECTION UNITS are assemblies of field coils and line coils used to produce the magnetic fields for vertical and horizontal deflection of the electron beam(s) of a display tube.

Properties

AAE607-005 line coil inductance

61360-4 © IEC:2005(E)

AAE608-005	field coil inductance
AAE609-005	line coil resistance
AAE610-005	field coil resistance
AAE611-005	line deflection current
AAE612-005	field deflection current
AAF273-005	display format
AAF274-005	line frequency

AAA226-001 02

Chokes

CHOKE

A set of chokes of which each choke can be described by the same set of data element types.

NOTE

CHOKES are inductances used in a circuit to present a high impedance for frequencies above a specified frequency range without appreciably limiting the flow of direct current.

AAA227-001 02

COIL

LINUNIT

MIC

A set of coils of which each coil can be described by the same set of data element types.

NOTE

Coils

COILS are a number of turns of wire used to introduce inductance into an electric circuit, to produce magnetic flux, or to react mechanically to a changing magnetic flux.

AAA228-001 02

Linearity control units

A set of linearity control units of which each unit can be described by the same set of data element types.

NOTE

LINEARITY CONTROL UNITS are control units to adjust the variation of scanning speed during the trace interval to minimise geometric distortion.

AAA229-001 02

Microwave components

A set of components for operation at microwave frequencies of which each component can be described by the same set of data element types.

Properties

AAF260-005	characteristic impedance
AAJ041-001	voltage standing wave ratio
AAJ056-001	category temperature
AAJ117-001	microwave component type
AAJ118-001	connection type
AAJ119-001	insertion loss
AAJ120-001	isolation
AAJ121-001	maximum power handling
AAJ122-001	frequency range

OP

AAA230-001 02

Printed wiring laminates PWL

A set of copper-clad laminates for printed wiring of which each laminate can be described by the same set of data element types.

Properties

AAJ040-001	circuit board thickness
AAJ107-001	printed wiring base material
AAJ108-001	copper thickness
AAJ109-001	number of layers

AAA231-001 02

Dielectric and insulating materials DIEL

A set of dielectric or insulating materials of which each material can be described by the same set of data element types.

Properties

AAJ106-001 dielectric material

AAA232-001 02

Printed wiring circuits

PWC

A set of rigid, sem-rigid or flexible printed wiring circuits of which each circuit can be described by the same set of data element types.

Properties

AAJ040-001	circuit board thickness
AAJ107-001	printed wiring base material
AAJ108-001	copper thickness
AAJ109-001	number of layers
AAJ110-001	circuit length
AAJ111-001	circuit width
AAJ112-001	track width
AAJ113-001	track spacing
AAJ114-001	connector material
AAJ115-001	connector pitch

AAA233-001 02

Features

FEA

A set of features of a characteristic property of which each feature can be described by the same set of data element types.

NOTE

FEATURES are autonomous and stand-alone abstractions of an object of the parts/component library application domain. It might be represented as a specific subclass of other classes.

AAF440-001 features

Subclasses

AAA234-001 Complex number values AAA235-001 Toleranced values

AAA234-001 02

Complex number values

CPLX

A set of properties representing a characteristic value as a complex quantity which can be described by the same set of data element types.

NOTE

COMPLEX NUMBER VALUES are values for physical quantities that may be expressed in a Cartesian form with a real and an imaginary part or in a polar form with a magnitude and an argument (phase angle).

Properties

AAF454-001 phase angle AAF455-001 phase angle

AAF441-001 complex numbers

Subclasses

AAA236-001 Impedance AAA237-001 Admittance

AAA235-001 02

Toleranced values

TOL

A set of properties representing the percentage (%) tolerances of a characteristic value which can be described by the same set of data element types.

NOTE

TOLERANCED VALUES are values for physical quantities that may be expressed as the nominal value of the quantity together with deviations from that nominal value as percentages or absolute values.

Properties

AAF443-001 symmetric tolerance AAF444-001 negative tolerance AAF445-001 positive tolerance

AAF442-001 toleranced values

Subclasses

Toleranced capacitance
Toleranced resistance
Toleranced resistance

AAA236-001 02

Impedance

IMP

A set of properties representing the impedance of an electric component as a complex quantity of which each set of values can be described by the same set of data element types

NOTE

IMPEDANCE is the ratio of voltage to current expressed as a complex number value.

Properties

AAF456-001 modulus of impedance AAF457-001 resistance AAF458-001 reactance

AAA237-001 02

Admittance

ADM

A set of properties representing the admittance of an electric component as a complex quantity of which each set of values can be described by the same set of data element types.

NOTE

ADMITTANCE is the ratio of current to voltage expressed as a complex number value.

Properties

AAF459-001	modulus of admittance
AAF460-001	conductance
AAF461-001	susceptance

AAA238-001 02

Toleranced capacitance

TOLCAP

A set of properties representing capacitance of an electric component together with associated tolerances of which each set of values can be described by the same set of data element types.

Properties

AAF446-001	capacitance
AAF447-001	symmetric capacitance tolerance
AAF448-001	negative capacitance tolerance
AAF449-001	positive capacitance tolerance

AAA239-001 02

Toleranced resistance

TOLRES

A set of properties representing resistance of an electric component together with associated tolerances of which each set of values can be described by the same set of data element types.

Properties

resistance
symmetric resistance tolerance
negative resistance tolerance
positive resistance tolerance

AAA295-001 02

Bare die

BARE

A set of bare die devices without attachments and with pads on one surface only for which the geometric and physical properties of each device can be described by the same set of data element types.

NOTE

BARE DIE are unpackaged discrete semiconductors or integrated circuits in the form of singulated die or sawn or unsawn wafers with pads on one surface suitable for interconnection to the substrate or package.

Properties

AAD005-001	substrate material
AAD006-001	connection requirement code
AAD007-001	substrate connection
AAD012-001	termination number
AAD013-001	manufacturer pad identifier
AAD014-001	pad geometry name
AAD015-001	pad x position
AAD016-001	pad y position
AAD017-001	pad orientation
AAD018-001	number of bond sites
AAD024-001	pad shape
AAD025-001	pad length
AAD026-001	pad width
AAD027-001	number of polygon vertices
AAD028-001	vertex number
AAD029-001	vertex x-coordinate
AAD030-001	vertex y-coordinate
AAD078-001	passivation material
AAD091-001	connection requirement
AAD093-001	substrate connection
AAD116-001	pad geometry count
AAD119-001	backside finish
AAD120-001	pad metallisation
AAD121-001	pad diameter
AAD148-001	bulk material
AAD149-001	maximum assembly temperature

AAA296-001 02

Bumped die

BUMP

A set of bare die devices with bumps for connection to a substrate for which the geometric and physical properties of each device can be described by the same set of data element types.

NOTE

BUMPED DIE are unpackaged die or wafers that have had added bumps for interconnection and/or mechanical attachment. Typically these can be die that have had solder or other metallic bumps added to the metallised pads on the die (also known as flip-chip).

Properties

AAD122-001	bump size
AAD123-001	bumped height
AAD124-001	bump material
AAD126-001	underfill
AAD146-001	bump height
AAD147-001	bump height tolerance

AAA297-001 02

Die with attached lead frame

LEAD

A set of bare die devices with lead frame for connection to a substrate for which the geometric and physical properties of each device can be described by the same set of data element types.

NOTE

DIE WITH ATTACHED LEAD FRAME are unpackaged die that have had added lead frames or similar terminations connected to the pads on the die to allow interconnection and/or mechanical attachment.
Properties

AAD125-001 lead-frame material AAD126-001 underfill

AAA298-001 02

Minimally-packaged die devices MPD

A set of properties for minimally-packaged die devices for which the geometric and physical properties of each device can be described by the same set of data element types.

NOTE

MINIMALLY-PACKAGED DIE DEVICES are die or wafers that have had some exterior packaging medium and interconnection structure added for protection and ease of handling.

Properties

AAD126-001	underfill
AAD150-001	encapsulation material
AAD155-001	MPD delivery form

AAA299-001 01

Two-sided bare die devices

DUAL

A set of properties for bare die devices having connections on both surfaces for which the geometric and physical properties of each device can be described by the same set of data element types.

Properties

AAD005-001	substrate material
AAD013-001	manufacturer pad identifier
AAD014-001	pad geometry name
AAD015-001	pad x position
AAD016-001	pad y position
AAD017-001	pad orientation
AAD018-001	number of bond sites
AAD024-001	pad shape
AAD025-001	pad length
AAD026-001	pad width
AAD027-001	number of polygon vertices
AAD028-001	vertex number
AAD029-001	vertex x-coordinate
AAD030-001	vertex y-coordinate
AAD078-001	passivation material
AAD081-001	die surface
AAD116-001	pad geometry count
AAD030-001 AAD078-001 AAD081-001 AAD116-001	vertex y-coordinate passivation material die surface pad geometry count

AAA301-001 01

Geometry

GEO

A set of industrial products of which each product can be described with the same group of data element types.

AAG000-001 geometry type

Subclasses AAA302-001 Die devices AAA303-001 Package outlines

AAA302-001 02

Die devices

levices

A set of die devices of which each device can be described with the same group of data element types.

DIE

NOTE

DIE DEVICES include bare semiconductor die or wafers, with or without connection structures, or minimally-packaged die or wafers.

Properties

Properties	
AAD001-001	die identifier
AAD002-001	die name
AAD003-001	die version
AAD008-001	die test level code
AAD009-001	die yield
AAD010-001	die description
AAD011-001	wafer size
AAD019-001	signal name
AAD020-001	signal type
AAD021-001	electrical reference
AAD022-001	signal direction
AAD023-001	swap codes
AAD031-001	supply variability
AAD032-001	supply voltage
AAD033-001	nad supply current
	supply name
	supply name
	supply callent
	supply packing code
	tost procedure description
	dia stop dimonsion x
AAD070-001	die step dimension x
AAD071-001	die step dimension y
AAD072-001	
AAD062-001	
AAD085-001	die type
AAD086-001	ale type description
AAD087-001	supply form
AAD088-001	supply form description
AAD069-001	supply packing
AAD090-001	supply packing description
AAD095-001	die yield code
AAD115-001	
AAD117-001	
AAD110-001	
AAD127-001	die picture
AAD129-001	die centre x-position
AAD130-001	die centre y-position
AAD131-001	defect rate
AAD132-001	test now
AAD133-001	temperature specification
AAD134-001	process options
AAD137-001	conformity level
AAD140-001	die manufacturer
AAD141-001	ale supplier
AAD142-001	die data source
AAD143-001	packaged part name
AAD144-001	geometric view
AAD145-001	terminal count
AAD151-001	power limit
AAD153-001	test reliability code
AAD154-001	test maturity code
AAD156-001	
AAD157-001	TIQUCIAL THE NAME
AAD158-001	
AAD159-001	noucial neight

AAD160-001 fiducial x position AAD161-001 fiducial y position AAD162-001 fiducial orientation

AAD004-001 die type code

Subclasses

Bare die
Two-sided bare die devices
Bumped die
Die with attached lead frame
Minimally-packaged die devices

AAA303-001 01

Package outline

A set of component packages of which each package can be described with the same group of data element types.

PAK

NOTE

PACKAGE OUTLINE is the geometric description of the physical shape of a packaged component including its dimensions.

Properties

AAG037-001	quantity of terminal positions
AAG038-001	quantity of missing terminals
AAG059-001	actual quantity of termination
AAG066-001	drawing reference code
AAG067-001	source document identification
AAG068-001	source document page
AAG069-001	manufacturer package code
AAG070-001	standard package code
AAG071-001	standards document reference
AAG072-001	termination count sequence
AAG073-001	surface-mount flag

AAG057-001 package style code

Subclasses

AAA304-001 bead AAA305-001 chip carrier AAA307-001 cylindrical AAA308-001 disc AAA309-001 flange mount AAA311-001 flat pack AAA312-001 grid array AAA313-001 in line AAA314-001 long-form AAA318-001 post mount AAA319-001 rectangular AAA320-001 small outline

AAA304-001 01

bead-shaped

ΒD

A set of bead package outline styles of which each outline style can be described with the same group of data element types.

NOTE

BEAD-SHAPED is a package style in which the body is spherical or almost spherical.

AAG056-001 terminal position code

Subclasses AAA322-001 axial AAA323-001 bottom

AAA305-001 01

chip-carrier

СС

A set of chip-carrier package outline styles of which each outline style can be described with the same group of data element types.

NOTE

CHIP-CARRIER is a package style in which the body has a rectangular in shape and has very short connections or connections on the surface.

AAG056-001 terminal position code

Subclasses AAA324-001 quad

AAA307-001 01

cylindrical

CY

A set of cylindrical package outline styles of which each outline style can be described with the same group of data element types.

NOTE

CYLINDRICAL is a package style in which the body is cylindrical with the length no smaller than the diameter.

AAG056-001 terminal position code

Subclasses

AAA325-001	axial
AAA326-001	bottom
AAA327-001	end
AAA328-001	radial
AAA329-001	upper

AAA308-001 01

disc-shaped

DB

A set of disc package outline styles of which each outline style can be described with the same group of data element types.

NOTE

DISC-SHAPED is a package style in which the body is cylindrical with the length smaller than the diameter.

AAG056-001 terminal position code

Subclasses

AAA330-001 axial AAA331-001 bottom -73 -

AAA309-001 01

flange-mount FM

A set of flange-mount package outline styles of which each outline style can be described with the same group of data element types.

NOTE

FLANGE-MOUNT is a package style which is intended for mounting by flanges which form part of the package.

AAG056-001 terminal position code

Subclasses

AAA332-001 bottom AAA333-001 double AAA334-001 single AAA335-001 zig-zag

AAA311-001 01

flat-pack

FP

A set of flat-pack package outline styles of which each outline style can be described with the same group of data element types.

NOTE

FLAT-PACK is a package style which is intended for mounting and connection by leads extending away from the body in a horizontal plane.

AAG056-001 terminal position code

Subclasses

AAA336-001 double AAA337-001 quad

AAA312-001 01

grid-array

GA

A set of grid-array package outline styles of which each outline style can be described with the same group of data element types.

NOTE

GRID-ARRAY is a package style in which the body has a rectangular shape with leads disposed in regular patterns over one face.

AAG056-001 terminal position code

Subclasses

AAA338-001 bottom AAA339-001 perpendicular

AAA313-001 01

in-line

A set of in-line package outline styles of which each outline style can be described with the same group of data element types.

NOTE

IN-LINE is a package style in which the leads are disposed in one or more rows.

AAG056-001 terminal position code

Subclasses AAA340-001 double AAA341-001 quad AAA342-001 single AAA343-001 triple AAA344-001 zig-zag

AAA314-001 01

long-form

LF

IP

A set of long-form package outline styles of which each outline style can be described with the same group of data element types.

NOTE

LONG FORM is a package style in which the length is greater than the cross-ectional dimensions but which cannot be described as either cylindrical or rectangular.

AAG056-001 terminal position code

Subclasses AAA345-001 axial

AAA318-001 01

post-mount

РМ

A set of post-mount package outline styles of which each outline style can be described with the same group of data element types.

NOTE

POST-MOUNT is a package style in which the package is mounted and fastened by a post or stud.

AAG056-001 terminal position code

Subclasses AAA346-001 upper

AAA319-001 01

rectangular

A set of rectangular package outline styles of which each outline style can be described with the same group of data element types.

NOTE

RECTANGULAR is a package style in which the body approximates to the shape of a rectangular box.

AAG056-001 terminal position code

Subclasses

AAA347-001 axial AAA348-001 bottom AAA349-001 end

AAA320-001 01

small-outline

so

RC

A set of small package outline styles of which each outline style can be described with the same group of data element types.

NOTE

SMALL-OUTLINE is a package style which is characterised by small dimensions and which is normally intended for surface-mounting by small gullwing leads.

AAG056-001 terminal position code

Subclasses

AAA350-001 double AAA351-001 quad AAA352-001 single

AAA322-001 01

axial leads

Α

A set of bead package outline styles with axial leads of which each outline style can be described with the same group of data element types.

NOTE

AXIAL LEADS extend outwards from the package along one of its axes in opposite directions away from the centre of the package.

AAG058-001 terminal shape code

Subclasses AAA353-001 wire

AAA323-001 01

bottom leads

В

A set of bead package outline styles with bottom leads of which each outline style can be described with the same group of data element types.

NOTE

BOTTOM LEADS are leads which emerge from the face of a package which is on or nearest to its mounting plane.

AAG058-001 terminal shape code

Subclasses

AAA354-001 wire

AAA324-001 01

quad

Q

A set of quad chip-carrier package outline styles of which each outline style can be described with the same group of data element types.

NOTE

QUAD leads are disposed around all four sides of a rectangular package.

AAG058-001 terminal shape code

Subclasses AAA355-001 J-bend AAA356-001 no lead

AAA325-001 01

axial leads

Α

A set of cylindrical package outline styles with axial leads of which each outline style can be described with the same group of data element types.

NOTE

AXIAL LEADS extend outwards from the package along one of its axes in opposite directions away from the centre of the package.

AAG058-001 terminal shape code

Subclasses AAA357-001 wire

AAA326-001 01

bottom leads

В

A set of cylindrical package outline styles with bottom leads of which each outline style can be described with the same group of data element types.

NOTE

BOTTOM LEADS are leads which emerge from the face of a package which is on or nearest to its mounting plane.

AAG058-001 terminal shape code

Subclasses

AAA358-001 wire

AAA327-001 01

end connections

Е

A set of cylindrical package outline styles with end connections of which each outline style can be described with the same group of data element types.

NOTE

END CONNECTIONS are connections formed on or around the ends of a package.

AAG058-001 terminal shape code

Subclasses

AAA359-001 wrap around

AAA328-001 01

radial leads

R

A set of cylindrical package outline styles with radial leads of which each outline style can be described with the same group of data element types.

NOTE

RADIAL LEADS extend outwards from a package in a direction perpendicular to one of the principal axes of the package.

AAG058-001 terminal shape code

Subclasses

AAA360-001 solder lug AAA361-001 wire

AAA329-001 01

upper connections

U

A set of cylindrical package outline styles with upper connections of which each outline style can be described with the same group of data element types.

NOTE

UPPER CONNECTIONS are connections which emerge from the face of a package which is opposite to the face seated on the mounting plane.

AAG058-001 terminal shape code

Subclasses

AAA362-001 solder lug AAA363-001 screw

AAA330-001 01

axial leads

A set of disc package outline styles with axial leads of which each outline style can be described with the same group of data element types.

NOTE

AXIAL LEADS extend outwards from the package along one of its axes in opposite directions away from the centre of the package.

AAG058-001 terminal shape code

Subclasses AAA364-001 wire

AAA331-001 01

bottom leads

В

Δ

A set of disc package outline styles with bottom leads of which each outline style can be described with the same group of data element types.

NOTE

BOTTOM LEADS are leads which emerge from the face of a package which is on or nearest to its mounting plane.

Properties

AAG058-001 terminal shape code

Subclasses AAA365-001 wire

AAA332-001 01

bottom leads

В

A set of flange-mount package outline styles with bottom leads of which each outline style can be described with the same group of data element types.

NOTE

BOTTOM LEADS are leads which emerge from the face of a package which is on or nearest to its mounting plane.

AAG058-001 terminal shape code

Subclasses AAA366-001 pin

AAA333-001 01

double-row leads

A set of flange-mount package outline styles with a double row of leads of which each outline style can be described with the same group of data element types.

NOTE

DOUBLE-ROW LEADS are leads which are disposed in pairs in two parallel rows.

AAG058-001 terminal shape code

Subclasses

AAA367-001 pin

AAA334-001 01

single-row leads

S

D

A set of flange-mount package outline styles with a single row of leads of which each outline style can be described with the same group of data element types.

NOTE

SINGLE-ROW LEADS are leads which are disposed in a single row along one side of a package.

AAG058-001 terminal shape code

Subclasses AAA368-001 through hole

AAA335-001 01

zig-zag leads

Ζ

D

A set of flange-mount package outline styles with leads in a zig-zag pattern of which each outline style can be described with the same group of data element types.

NOTE

ZIG-ZAG LEADS are leads which are disposed in two parallel rows with each lead in a row opposite the space between two leads in the other row.

AAG058-001 terminal shape code

Subclasses AAA369-001 through-hole

AAA336-001 01

double-row leads

A set of dual flat-pack package outline styles of which each outline style can be described with the same group of data element types.

NOTE

DOUBLE-ROW LEADS are leads which are disposed in two parallel rows.

AAG058-001 terminal shape code

Subclasses

AAA370-001 flat

AAA337-001 01

quad

Q

A set of quad flat-pack package outline styles of which each outline style can be described with the same group of data element types.

NOTE

QUAD leads are disposed around all four sides of a rectangular package.

AAG058-001 terminal shape code

Subclasses AAA371-001 gull wing

AAA338-001 01

bottom leads

В

A set of grid-array package outline styles with bottom leads of which each outline style can be described with the same group of data element types.

NOTE

BOTTOM LEADS are leads which emerge from the face of a package which is on or nearest to its mounting plane.

AAG058-001 terminal shape code

Subclasses AAA372-001 butt

AAA339-001 01

perpendicular

Ρ

A set of pin-grid-array package outline styles of which each outline style can be described with the same group of data element types.

NOTE

PERPENDICULAR LEADS are rigid pins which are disposed over the face of a package and perpendicular to it.

AAG058-001 terminal shape code

Subclasses AAA373-001 pin

- 77 -

AAA340-001 01

double-row leads

A set of dual-in-line package outline styles of which each outline style can be described with the same group of data element types.

NOTE

DOUBLE-ROW LEADS are leads which are disposed in a two parallel rows.

AAG058-001 terminal shape code

Subclasses

AAA374-001 pin AAA375-001 through-hole

AAA341-001 01

quad

Q

D

A set of quad-in-line package outline styles of which each outline style can be described with the same group of data element types.

NOTE

QUAD leads are disposed around all four sides of a rectangular package.

AAG058-001 terminal shape code

Subclasses

AAA376-001 through-hole

AAA342-001 01

single-row leads

S

A set of single-in-line package outline styles of which each outline style can be described with the same group of data element types.

NOTE

SINGLE-ROW LEADS are leads which are disposed in a single row along one side of a package.

AAG058-001 terminal shape code

Subclasses AAA377-001 through-hole

AAA343-001 01

triple row

т

A set of triple-in-line package outline styles of which each outline style can be described with the same group of data element types.

NOTE

SINGLE-ROW LEADS are leads which are disposed in a single row along one side of a package.

AAG058-001 terminal shape code

Subclasses

AAA378-001 through-hole

AAA344-001 01

zig-zag leads

z

A set of zigzag-in-line package outline styles of which each outline style can be described with the same group of data element types.

NOTE

ZIG-ZAG LEADS are leads which are disposed in two parallel rows with each lead in a row opposite the space between two leads in the other row.

AAG058-001 terminal shape code

Subclasses

AAA379-001 through-hole

AAA345-001 01

axial leads

Α

A set of long-form package outline styles with axial leads of which each outline style can be described with the same group of data element types.

NOTE

AXIAL LEADS extend outwards from the package along one of its axes in opposite directions away from the centre of the package.

AAG058-001 terminal shape code

Subclasses AAA380-001 wire

AAA346-001 01

upper connections

U

A set of post-mount package outline styles with upper connections of which each outline style can be described with the same group of data element types.

NOTE

UPPER CONNECTIONS are connections which emerge from the face of a package which is opposite to the face seated on the mounting plane.

AAG058-001 terminal shape code

Subclasses

AAA381-001 solder lug AAA382-001 high current cable

AAA347-001 01

axial leads

A set of rectangular package outline styles with axial leads of which each outline style can be described with the same group of data element types.

NOTE

AXIAL LEADS extend outwards from the package along one of its axes in opposite directions away from the centre of the package.

AAG058-001 terminal shape code

Subclasses

AAA383-001 solder lug AAA384-001 wire

AAA348-001 01

bottom leads

В

Δ

A set of rectangular package outline styles with bottom leads of which each outline style can be described with the same group of data element types.

NOTE

BOTTOM LEADS are leads which emerge from the face of a package which is on or nearest to its mounting plane.

AAG058-001 terminal shape code

Subclasses AAA385-001 wire

AAA349-001 01

end connections

Е

A set of rectangular package outline styles with end connections of which each outline style can be described with the same group of data element types.

NOTE

END CONNECTIONS are connections formed on or around the ends of a package.

AAG058-001 terminal shape code

Subclasses

AAA386-001 no lead AAA387-001 wraparound

AAA350-001 01

double-row leads

A set of dual small package outline styles of which each outline style can be described with the same group of data element types.

NOTE

DOUBLE-ROW LEADS are leads which are disposed in a two parallel rows

AAG058-001 terminal shape code

Subclasses

AAA388-001 gull-wing

AAA351-001 01

quad

Q

D

A set of quad small package outline styles of which each outline style can be described with the same group of data element types.

NOTE

QUAD leads are disposed around all four sides of a rectangular package.

AAG058-001 terminal shape code

Subclasses AAA389-001 gull-wing

AAA352-001 01

single-row leads

S

A set of single small package outline styles of which each outline style can be described with the same group of data element types.

NOTE SINGLE-ROW LEADS are leads which are disposed in a single row along one side of a package.

AAG058-001 terminal shape code

Subclasses AAA390-001 gull-wing

AAA353-001 01

wire

w

A set of bead package outline styles with axial wire leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA391-001 straight leads -79 -

AAA354-001 01

wire

A set of bead package outline styles with bottom wire leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA392-001 straight leads AAA393-001 formed leads

AAA355-001 01

J-bend

J

N

w

w

A set of quad chip-carrier package outline styles with J-bend leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA394-001 standard form

AAA356-001 01

no-lead

A set of quad leadless chip-carrier package outline styles of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA395-001 standard form

AAA357-001 01

wire

A set of cylindrical package outline styles with axial wire leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA396-001 straight leads

AAA358-001 01

wire

W

A set of cylindrical package outline styles with bottom wire leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA397-001 leads on a circle

AAA398-001	straight leads in line
AAA399-001	formed leads in line
AAA400-001	leads on a square grid
AAA401-001	offset leads

AAA359-001 01

wrap-around

R

A set of cylindrical package outline styles with wraparound end connections of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA402-001 standard form

AAA360-001 01

solder lug

D

A set of cylindrical package outline styles with radial solder-lug leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA403-001 straight leads

AAA361-001 01

wire

w

A set of cylindrical package outline styles with radial wire leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA404-001 straight leads

AAA362-001 01

solder lug

D

A set of cylindrical package outline styles with upper solder-lug connections of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA405-001 standard form

AAA363-001 01

screw Y

A set of cylindrical package outline styles with upper screw connections of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA406-001 standard form

AAA364-001 01

wire

W

A set of disc package outline styles with axial wire leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA407-001 straight leads

AAA365-001 01

wire

w

A set of disc package outline styles with bottom wire leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA408-001 straight leads AAA409-001 formed leads

AAA366-001 01

pin

Ρ

A set of flange-mount package outline styles with bottom pins of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA410-001 offset leads AAA411-001 leads on a circle

AAA367-001 01

pin

Ρ

A set of flange-mount package outline styles with a double row of pins of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA412-001 round pins

AAA368-001 01

through-hole

A set of flange-mount package outline styles with a single row of through-hole leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA413-001 straight flat leads AAA414-001 straight V-section leads

AAA369-001 01

through-hole

Т

т

A set of flange-mount package outline styles with through-hole leads in a zig-zag pattern of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA415-001 straight flat leads AAA416-001 straight V-section leads

AAA370-001 01

flat

F

A set of dual flat-pack package outline styles with flat leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA417-001 straight flat leads

AAA371-001 01

gull wing

G

A set of quad flat-pack package outline styles with gull-wing leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA418-001 standard form

AAA372-001 01

butt B

A set of grid-array package outline styles with bottom butt leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA419-001 solder balls

AAA373-001 01

pin

pin

Ρ

A set of pin-grid-array package outline styles with pin leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA420-001 round pins

AAA374-001 01

Ρ

A set of dual-in-line package outline styles with pin leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA421-001 round pins AAA422-001 rectangular pins

AAA375-001 01

through-hole

т

т

A set of dual-in-line package outline styles with through-hole leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA423-001 standard form

AAA376-001 01

through-hole

A set of quad-in-line package outline styles with through-hole leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA424-001 standard form

AAA377-001 01

through-hole

т

A set of single-in-line package outline styles with through-hole leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA425-001 standard form

AAA378-001 01

through-hole

Т

A set of triple-in-line package outline styles with through-hole leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA426-001 standard form

AAA379-001 01

through-hole

т

A set of zigzag-in-line package outline styles with through-hole leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA427-001 standard form

AAA380-001 01

wire

w

A set of long-form package outline styles with axial wire leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA428-001 straight leads D

н

AAA381-001 01

solder lug

A set of post-mount package outline styles with upper solder-lug connections of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA429-001 one fixed tag AAA430-001 two fixed tags

AAA382-001 01

high current cable

A set of post-mount package outline styles with upper high-current cable connections of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA431-001	one lead with tag
AAA432-001	two leads with tags
AAA433-001	three leads with tag
AAA434-001	one lead no tag

AAA383-001 01

solder lug

D

A set of rectangular package outline styles with axial solder lugs of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA435-001 strip leads

AAA384-001 01

wire

W

A set of rectangular package outline styles with axial wire leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA436-001 off-set leads

AAA385-001 01

wire

A set of rectangular package outline styles with bottom wire leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA437-001 straight leads AAA438-001 formed leads

AAA386-001 01

no lead

Ν

w

A set of leadless rectangular package outline styles with end connections of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA439-001 standard form

AAA387-001 01

wrap-around

R

A set of rectangular package outline styles with wrap-around end connections of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA440-001 standard form

AAA388-001 01

gull-wing

G

A set of dual small package outline styles with gullwing leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA441-001 multiple leads AAA442-001 three leads - 83 -

AAA389-001 01

gull-wing

A set of quad small package outline styles with gullwing leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses

AAA443-001 standard form

AAA390-001 01

gull-wing

G

G

A set of single small package outline styles with gullwing leads of which each outline style can be described with the same group of data element types.

AAG054-001 terminal variant code

Subclasses AAA444-001 two leads, stub and tab

AAA391-001 01

straight leads

T001

A set of bead package outline styles with straight axial wire leads of which each outline style can be described with the same group of data element types.

Properties

AAG009-001	terminal diameter
AAG014-001	package diameter
AAG089-001	package length
AAG090-001	overall length
AAG091-001	bent terminal spacing
AAG111-001	terminal length

DAA001-001 Bead package, straight axial wire leads

AAA392-001 01

straight leads

T001

A set of bead package outline styles with straight bottom wire leads of which each outline style can be described with the same group of data element types

Properties

AAG001-001 seated height AAG009-001 terminal diameter AAG013-001 package length AAG016-001 package width AAG017-001 terminal spacing AAG129-001 terminal length

DAA002-001 Bead package, straight bottom wire leads

AAA393-001 01

formed leads

A set of bead package outline styles with formed bottom wire leads of which each outline style can be described with the same group of data element types.

Properties

AAG001-001 seated height AAG009-001 terminal diameter AAG013-001 package length AAG016-001 package width AAG017-001 terminal spacing AAG129-001 terminal length

DAA003-001 Bead package, formed bottom wire leads

AAA394-001 01

standard form

T000

T002

A set of quad chip-carrier package outline styles with standard J-bend leads of which each outline style can be described with the same group of data element types.

AAG055-001 body variant code

Subclasses AAA445-001 non-bumped package

AAA395-001 01

standard form

Т000

A set of quad leadless chip-carrier package outline styles with standard leads of which each outline style can be described with the same group of data element types.

AAG055-001 body variant code

Subclasses

AAA446-001 Non-cavity package (moulded) AAA447-001 cavity package (ceramic)

AAA396-001 01

straight leads

T001

A set of cylindrical package outline styles with straight axial wire leads of which each outline style can be described with the same group of data element types.

AAG055-001 body variant code

Subclasses

AAA448-001 plain cylindrical AAA449-001 top hat package

T003

AAA397-001 01

leads on a circle

A set of cylindrical package outline styles with bottom wire leads on a circle of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG004-001	terminal circle diameter
AAG009-001	terminal diameter
AAG014-001	package diameter
AAG026-001	index height
AAG027-001	index width
AAG028-001	index length
AAG029-001	terminal length
AAG047-001	index datum angle
AAG049-001	angular terminal spacing
AAG062-001	package diameter

DAA004-001 Cylindrical package, bottom leads on circle

AAA398-001 01

straight leads in line

T004

A set of cylindrical package outline styles with straight in-line bottom wire leads of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG008-001	terminal width
AAG009-001	terminal diameter
AAG012-001	terminal thickness
AAG014-001	package diameter
AAG016-001	package width
AAG017-001	terminal spacing
AAG027-001	index width
AAG044-001	terminal reference position
AAG129-001	terminal length

DAA005-001 Cylindrical package, straight in-line bottom leads

AAA399-001 01

formed leads in line

T005

A set of cylindrical package outline styles with formed in-line bottom wire leads of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG002-001	stand-off height
AAG003-001	package height
AAG008-001	terminal width
AAG009-001	terminal diameter
AAG012-001	terminal thickness
AAG014-001	package diameter
AAG016-001	package width
AAG017-001	terminal spacing
AAG027-001	index width
AAG044-001	terminal reference position
AAG129-001	terminal length

DAA006-001 Cylindrical package, formed in-line bottom leads

AAA400-001 01

leads on a square grid

Т006

A set of cylindrical package outline styles with bottom wire leads on a square grid of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG009-001	terminal diameter
AAG014-001	package diameter
AAG017-001	terminal spacing
AAG018-001	flange zone height
AAG027-001	index width
AAG028-001	index length
AAG053-001	terminal row spacing
AAG062-001	package diameter
AAG080-001	terminal row spacing
AAG129-001	terminal length

DAA007-001 Cylindrical package, bottom leads on square grid

AAA401-001 01

offset leads

T007

A set of cylindrical package outline styles with offset bottom wire leads of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG009-001	terminal diameter
AAG014-001	package diameter
AAG017-001	terminal spacing
AAG044-001	terminal reference position
AAG129-001	terminal length

DAA008-001 Cylindrical package, offset in-line bottom leads

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AAA402-001 01

standard form T000

A set of cylindrical package outline styles with wraparound end connections in standard form of which each outline style can be described with the same group of data element types.

Properties

AAG009-001	terminal diameter
AAG014-001	package diameter
AAG077-001	terminal length
AAG090-001	overall length
AAG104-001	drawing sequence code

DAA009-001 Cylindrical package, wrap-around terminations

AAA403-001 01

straight leads

T001

A set of cylindrical package outline styles with straight radial solder-lug leads of which each outline style can be described with the same group of data element types.

Properties

AAG001-001 seated height AAG008-001 terminal width AAG012-001 terminal thickness AAG014-001 package diameter AAG017-001 terminal spacing AAG089-001 package length AAG129-001 terminal length

DAA010-001 Cylindrical package, radial tag leads

AAA404-001 01

straight leads

T001

A set of cylindrical package outline styles with straight radial wire leads of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG009-001	terminal diameter
AAG014-001	package diameter
AAG017-001	terminal spacing
AAG089-001	package length
AAG129-001	terminal length

DAA011-001 Cylindrical package, radial wire leads

AAA405-001 01

standard form

T000

A set of cylindrical package outline styles with upper solder-lug connections in standard form of which each outline style can be described with the same group of data element types.

AAG055-001 body variant code

Subclasses

AAA450-001 clamp mount package AAA451-001 stud mount package

AAA406-001 01

standard form

тооо

A set of cylindrical package outline styles with upper screw connections in standard form of which each outline style can be described with the same group of data element types.

AAG055-001 body variant code

Subclasses

AAA452-001	clamp mount package
AAA453-001	stud mount package

AAA407-001 01

straight leads

T001

A set of disc package outline styles with straight axial wire leads of which each outline style can be described with the same group of data element types.

Properties

AAG009-001 terminal diameter AAG014-001 package diameter AAG089-001 package length AAG090-001 overall length AAG091-001 bent terminal spacing AAG111-001 terminal length

DAA012-001 Disc package, straight axial wire leads

AAA408-001 01

straight leads

T001

A set of disc package outline styles with straight bottom wire leads of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG009-001	terminal diameter
AAG013-001	package length
AAG016-001	package width
AAG017-001	terminal spacing
AAG129-001	terminal length

DAA013-001 Disc package, straight bottom leads

- 6

AAA409-001 01

formed leads

T002

A set of disc package outline styles with formed bottom wire leads of which each outline style can be described with the same group of data element types

Properties

AAG001-001 seated height AAG009-001 terminal diameter AAG013-001 package length AAG016-001 package width AAG017-001 terminal spacing AAG129-001 terminal length

DAA014-001 Disc package, formed bottom leads

AAA410-001 01

offset leads

T007

A set of flange-mount package outline styles with offset bottom pins of which each outline style can be described with the same group of data element types.

Properties

AAG001-001seated heightAAG009-001terminal diameterAAG014-001package diameterAAG017-001terminal spacingAAG018-001flange zone heightAAG029-001terminal lengthAAG039-001mounting hole diameterAAG042-001mounting hole separationAAG083-001larger flange radiusAAG084-001smaller flange radiusAAG085-001flange overall lengthAAG086-001flange overall widthAAG108-001terminal reference position

DAA015-001 Oval flange-mount package, offset bottom leads

AAA411-001 01

leads on a circle

T003

A set of flange-mount package outline styles with bottom pins on a circle of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG004-001	terminal circle diameter
AAG009-001	terminal diameter
AAG014-001	package diameter
AAG018-001	flange zone height
AAG029-001	terminal length
AAG039-001	mounting hole diameter
AAG042-001	mounting hole separation
AAG047-001	index datum angle
AAG049-001	angular terminal spacing
AAG083-001	larger flange radius

AAG084-001 smaller flange radius AAG085-001 flange overall length AAG086-001 flange overall width

DAA016-001 Oval flange-mount package, bottom leads on circle

AAA412-001 01

round pins

T009

A set of flange-mount package outline styles with a double row of round pins of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG009-001	terminal diameter
AAG013-001	package length
AAG016-001	package width
AAG017-001	terminal spacing
AAG019-001	flange height
AAG027-001	index width
AAG029-001	terminal length
AAG039-001	mounting hole diameter
AAG040-001	terminal emergence height
AAG042-001	mounting hole separation
AAG043-001	curve radius
AAG046-001	package overhang
AAG053-001	terminal row spacing
AAG081-001	lid length

DAA017-001 Flange-mount package, dual-in-line leads

AAA413-001 01

straight flat leads

T011

A set of flange-mount package outline styles with a single row of straight, flat, through-hole leads of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG005-001	stand-off major dimension
AAG008-001	terminal width
AAG012-001	terminal thickness
AAG013-001	package length
AAG016-001	package width
AAG017-001	terminal spacing
AAG018-001	flange zone height
AAG031-001	terminal length
AAG039-001	mounting hole diameter
AAG040-001	terminal emergence height
AAG042-001	mounting hole separation
AAG063-001	flange length
AAG111-001	terminal length

DAA018-001 Flange-mount package, single row, straight flat leads

AAA414-001 01

straight V-section leads T023

A set of flange-mount package outline styles with a single row of straight, V-section, through-hole leads of which each outline style can be described with the same group of data element types.

Properties

AAG001-001seated heightAAG005-001stand-off major dimensionAAG009-001terminal diameterAAG013-001package lengthAAG016-001package widthAAG017-001terminal spacingAAG018-001flange zone heightAAG039-001mounting hole diameterAAG040-001terminal emergence heightAAG042-001flange lengthAAG063-001flange lengthAAG111-001terminal length

DAA019-001 Flange-mount package, single row, straight V-section leads

AAA415-001 01

straight flat leads T011

A set of flange-mount package outline styles with straight, flat, through-hole leads in a zig-zag pattern of which each outline style can be described with the same group of data element types.

AAA416-001 01

straight V-section leads T023

A set of flange-mount package outline styles with straight, V-section, through-hole leads in a zig-zag pattern of which each outline style can be described with the same group of data element types.

AAA417-001 01

straight flat leads

T011

A set of dual flat-pack package outline styles with straight, flat leads of which each outline style can be described with the same group of data element types.

Properties

AAG001-001seated heightAAG008-001terminal widthAAG012-001terminal thicknessAAG013-001package lengthAAG016-001package widthAAG017-001terminal spacingAAG021-001package width zoneAAG024-001overall widthAAG034-001terminal lengthAAG040-001terminal emergence heightAAG046-001package overhang

DAA020-001 Dual flat pack

AAA418-001 01

standard form

тооо

A set of quad flat-pack package outline styles with gull-wing leads in standard form of which each outline style can be described with the same group of data element types.

AAG055-001 body variant code

Subclasses AAA454-001 non-bumped package

AAA419-001 01

solder ball

T012

A set of grid-array package outline styles with bottom solder balls of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG002-001	stand-off height
AAG003-001	package height
AAG009-001	terminal diameter
AAG013-001	package length
AAG016-001	package width
AAG017-001	terminal spacing
AAG053-001	terminal row spacing
AAG080-001	terminal row spacing
AAG107-001	terminal pattern
AAG109-001	quantity of terminal positions
AAG110-001	quantity of terminal positions
AAG112-001	terminal reference position
AAG113-001	terminal reference position

DAA021-001 Ball-grid array package

AAA420-001 01

round pin

т009

A set of pin-grid-array package outline styles with round pins of which each outline style can be described with the same group of data element types.

AAG055-001 body variant code

Subclasses AAA455-001 cavity up AAA456-001 cavity down

AAA421-001 01

round pin T009

A set of dual-in-line package outline styles with rectangular pins of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG002-001	stand-off height
AAG003-001	package height
AAG009-001	terminal diameter
AAG013-001	package length
AAG016-001	package width
AAG017-001	terminal spacing
AAG029-001	terminal length
AAG044-001	terminal reference position
AAG046-001	package overhang
AAG053-001	terminal row spacing

DAA022-001 Dual-in-line package, rectangular pins

AAA422-001 01

rectangular pin

T010

A set of dual-in-line package outline styles with round pins of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG002-001	stand-off height
AAG003-001	package height
AAG008-001	terminal width
AAG012-001	terminal thickness
AAG013-001	package length
AAG016-001	package width
AAG017-001	terminal spacing
AAG029-001	terminal length
AAG044-001	terminal reference position
AAG046-001	package overhang
AAG053-001	terminal row spacing

DAA023-001 Dual-in-line package, round pins

AAA423-001 01

standard form

T000

A set of dual-in-line package outline styles with through-hole leads in standard form of which each outline style can be described with the same group of data element types.

Properties

AAG001-001 seated height AAG002-001 stand-off height AAG003-001 package height AAG005-001 stand-off major dimension AAG008-001 terminal width AAG012-001 terminal thickness AAG013-001 package length AAG016-001 package width

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terminal spacing
terminal length
mounted width
package overhang
angular terminal spread
terminal row spacing
terminal row splay

DAA024-001 Dual-in-line package, standard throughhole leads

AAA424-001 01

standard form

тооо

A set of quad-in-line package outline styles with through-hole leads in standard form of which each outline style can be described with the same group of data element types.

AAA425-001 01

standard form

Т000

A set of single-in-line package outline styles with through-hole leads in standard form of which each outline style can be described with the same group of data element types.

AAA426-001 01

standard form

тооо

A set of triple-in-line package outline styles with through-hole leads in standard form of which each outline style can be described with the same group of data element types

AAA427-001 01

standard form

Т000

A set of zigzag-in-line package outline styles with through-hole leads in standard form of which each outline style can be described with the same group of data element types.

AAA428-001	01
AAA420-001	01

straight leads T001

A set of long-form package outline styles with straight axial wire leads of which each outline style can be described with the same group of data element types.

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AAA429-002 01

one fixed tag T013

A set of post-mount package outline styles with one upper solder-lug connection of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG014-001	package diameter
AAG018-001	flange zone height
AAG062-001	package diameter
AAG092-001	package height zone
AAG093-002	stud thread diameter
AAG095-001	stud length
AAG096-001	stud thread
AAG116-001	package diameter
AAG118-001	tag hole diameter
AAG131-001	hexagon width
AAG133-001	non-threaded stud length

DAA025-002 Stud-mount package, one fixed tag

AAA430-002 01

two fixed tags

T014

A set of post-mount package outline styles with two upper solder-lug connections of which each outline style can be described with the same group of data element types.

Properties

AAG014-001	package diameter
AAG018-001	flange zone height
AAG062-001	package diameter
AAG092-001	package height zone
AAG093-002	stud thread diameter
AAG095-001	stud length
AAG096-001	stud thread
AAG119-001	tag hole diameter
AAG120-001	tag hole diameter
AAG131-001	hexagon width
AAG133-001	non-threaded stud length

DAA026-002 Stud-mount package, two fixed tags

AAA431-002 01

one lead with tag

T015

A set of post-mount package outline styles with one upper high-current cable connection with tag of which each outline style can be described with the same group of data element types.

Properties

AAG014-001 package diameter AAG018-001 flange zone height AAG062-001 package diameter AAG093-002 stud thread diameter AAG095-001 stud length AAG096-001 stud thread AAG118-001 tag hole diameter AAG121-001 tag hole distance AAG124-001 height zone AAG131-001 hexagon width AAG133-001 non-threaded stud length

DAA027-002 Stud-mount package, one flexible lead with tag

AAA432-002 01

two leads with tags

T016

A set of post-mount package outline styles with two upper high-current cable connections with tags of which each outline style can be described with the same group of data element types.

Properties

AAG014-001	package diameter
AAG018-001	flange zone height
AAG062-001	package diameter
AAG093-002	stud thread diameter
AAG095-001	stud length
AAG096-001	stud thread
AAG119-001	tag hole diameter
AAG120-001	tag hole diameter
AAG122-001	tag hole distance
AAG123-001	tag hole distance
AAG124-001	height zone
AAG131-001	hexagon width
AAG133-001	non-threaded stud length

DAA028-002 Stud-mount package, two flexible leads with tags

AAA433-002 01

three leads with tag

T017

A set of post-mount package outline styles with three upper high-current cable connections with tags of which each outline style can be described with the same group of data element types.

Properties

AAG014-001	package diameter
AAG018-001	flange zone height
AAG062-001	package diameter
AAG093-002	stud thread diameter
AAG095-001	stud length
AAG096-001	stud thread
AAG119-001	tag hole diameter
AAG120-001	tag hole diameter
AAG122-001	tag hole distance
AAG123-001	tag hole distance
AAG124-001	height zone
AAG131-001	hexagon width
AAG133-001	non-threaded stud length

DAA029-002 Stud-mount package, three flexible leads with tags

AAA434-002 01

one lead no tag

T018

A set of post-mount package outline styles with one upper high-current cable connection without tag of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG009-001	terminal diameter
AAG014-001	package diameter
AAG018-001	flange zone height
AAG062-001	package diameter
AAG093-002	stud thread diameter
AAG095-001	stud length
AAG096-001	stud thread
AAG116-001	package diameter
AAG124-001	height zone
AAG125-001	overall height
AAG131-001	hexagon width
AAG133-001	non-threaded stud length

DAA030-002 Stud-mount package, one flexible lead, no tag

AAA435-001 01

strip leads

T019

A set of rectangular package outline styles with axial strip leads of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG008-001	terminal width
AAG012-001	terminal thickness
AAG013-001	package length
AAG016-001	package width
AAG111-001	terminal length

DAA031-001 Rectangular package, axial strip leads

AAA436-001 01

off-set leads

T007

A set of rectangular package outline styles with axial offset solder lugs of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG009-001	terminal diameter
AAG013-001	package length
AAG016-001	package width
AAG044-001	terminal reference position
AAG090-001	overall length
AAG091-001	bent terminal spacing
AAG111-001	terminal length

DAA032-001 Rectangular package, offset axial wire leads

AAA437-001 01

straight leads

T001

A set of rectangular package outline styles with straight bottom wire leads of which each outline style can be described with the same group of data element types.

Properties

AAG001-001 seated height AAG009-001 terminal diameter AAG013-001 package length AAG016-001 package width AAG017-001 terminal spacing AAG129-001 terminal length

DAA033-001 Rectangular package, straight bottom leads

AAA438-001 01

formed leads

T002

A set of rectangular package outline styles with formed bottom wire leads of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG009-001	terminal diameter
AAG013-001	package length
AAG016-001	package width
AAG017-001	terminal spacing
AAG129-001	terminal length

DAA034-001 Rectangular package, formed bottom leads

AAA439-001 01

standard form

T000

A set of leadless rectangular package outline styles in standard form with end connections of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG013-001	package length
AAG016-001	package width
AAG031-001	terminal length
AAG032-001	terminal length
	0

DAA035-001 Rectangular package, metallised ends

AAA440-001 01

standard form T000

A set of rectangular package outline styles with wrap-around end connections in standard form of which each outline style can be described with the same group of data element types.

Properties

AAG001-001seated heightAAG002-001stand-off heightAAG016-001package widthAAG040-001terminal emergence heightAAG052-001terminal seating angleAAG076-001terminal widthAAG090-001overall lengthAAG104-001drawing sequence codeAAG105-001bent terminal spacing

DAA036-001 Rectangular package, wrap-around terminations

AAA441-001 01

multiple leads

T020

A set of dual small package outline styles with multiple gull-wing leads of which each outline style can be described with the same group of data element types.

Properties

AAG001-001 seated height AAG002-001 stand-off height AAG003-001 package height AAG012-001 terminal thickness AAG013-001 package length AAG016-001 package width AAG017-001 terminal spacing AAG024-001 overall width AAG046-001 package overhang AAG052-001 terminal seating angle AAG076-001 terminal width AAG077-001 terminal length

DAA037-001 Dual small-outline package, multiple gull-wing leads

AAA442-001 01

three leads

T021

A set of dual small package outline styles with three gull-wing leads of which each outline style can be described with the same group of data element types.

Properties

AAGUUT-UUT	sealed neight
AAG002-001	stand-off height
AAG003-001	package height
AAG012-001	terminal thickness
AAG013-001	package length
AAG016-001	package width

AAG017-001	terminal spacing
AAG024-001	overall width
AAG034-001	terminal length
AAG046-001	package overhang
AAG052-001	terminal seating angle
AAG076-001	terminal width
AAG077-001	terminal length

DAA038-001 Small-outline package, three gull-wing leads

AAA443-001 01

standard form

тооо

A set of quad small package outline styles with gullwing leads in standard form of which each outline style can be described with the same group of data element types.

AAA444-001 01

two leads, stub and tab

T022

A set of single small package outline styles with two gull-wing leads, a stub and a tab of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG012-001	terminal thickness
AAG013-001	package length
AAG016-001	package width
AAG017-001	terminal spacing
AAG019-001	flange height
AAG031-001	terminal length
AAG034-001	terminal length
AAG040-001	terminal emergence height
AAG063-001	flange length
AAG076-001	terminal width
AAG077-001	terminal length
AAG114-001	flange width

DAA039-001 Small-outline package, two gull-wing leads, stub and tab

AAA445-001 01

non-bumped package

B002

A set of quad non-bumped chip-carrier package outline styles with standard J-bend leads of which each outline style can be described with the same group of data element types.

Properties

AAG001-001 seated height AAG002-001 stand-off height AAG003-001 package height AAG013-001 package length AAG016-001 package width AAG017-001 terminal spacing AAG023-001 overall length AAG024-001 overall width AAG028-001 index length AAG053-001terminal row spacingAAG076-001terminal widthAAG077-001terminal lengthAAG079-001other index lengthAAG080-001terminal row spacingAAG109-001quantity of terminal positionsAAG110-001quantity of terminal positionsAAG130-001index angle

DAA040-001 Quad chip carrier, J-bend leads, nonbumped package

AAA446-001 01

Non-cavity package (moulded) B009

A set of quad leadless chip-carrier non-cavity package outline styles with standard leads of which each outline style can be described with the same group of data element types.

Properties

seated height
package length
package width
terminal spacing
index length
terminal row spacing
terminal width
terminal length
lid height
terminal row spacing
lid length
lid width
quantity of terminal positions
quantity of terminal positions
terminal reference position
terminal reference position
index terminal length

DAA041-001 Quad chip carrier, leadless non-cavity package (moulded)

AAA447-001 01

cavity package (ceramic)

B010

A set of quad leadless chip-carrier cavity package outline styles with standard leads of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG013-001	package length
AAG016-001	package width
AAG017-001	terminal spacing
AAG028-001	index length
AAG053-001	terminal row spacing
AAG076-001	terminal width
AAG077-001	terminal length
AAG078-001	lid height
AAG079-001	other index length
AAG080-001	terminal row spacing
AAG081-001	lid length
AAG082-001	lid width
AAG109-001	quantity of terminal positions

AAG110-001 quantity of terminal positions AAG112-001 terminal reference position AAG113-001 terminal reference position AAG115-001 index terminal length

DAA042-001 Quad chip carrier, leadless cavity package (ceramic)

AAA448-001 01

plain cylindrical

B003

A set of plain cylindrical package outline styles with straight axial wire leads of which each outline style can be described with the same group of data element types.

Properties

AAG009-001 terminal diameter AAG014-001 package diameter AAG089-001 package length AAG090-001 overall length AAG091-001 bent terminal spacing AAG111-001 terminal length

DAA043-001 Cylindrical package, straight axial wire leads

AAA449-001 01

top hat package

B004

A set of top-hat cylindrical package outline styles with straight axial wire leads of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG009-001	terminal diameter
AAG014-001	package diameter
AAG018-001	flange zone height
AAG062-001	package diameter
AAG091-001	bent terminal spacing
AAG098-001	main terminal length
AAG099-001	secondary terminal length
AAG100-001	main overall length
AAG101-001	secondary overall length
AAG102-001	slug diameter
AAG103-001	slug width

DAA044-001 Top-hat package, straight axial wire leads

AAA450-001 01

clamp mount package

B005

A set of cylindrical clamp-mount package outline styles with upper solder-lug connections in standard form of which each outline style can be described with the same group of data element types.

Properties

AAG001-001 seated height AAG008-001 terminal width AAG012-001 terminal thickness AAG014-001 package diameter AAG017-001 terminal spacing AAG111-001 terminal length AAG117-001 tag hole width

DAA045-001 Cylindrical package, top tag terminals, clamp mount

AAA451-002 01

stud mount package

B006

A set of cylindrical stud-mount package outline styles with upper solder-lug connections in standard form of which each outline style can be described with the same group of data element types.

Properties

rioperties	
AAG001-001	seated height
AAG008-001	terminal width
AAG012-001	terminal thickness
AAG014-001	package diameter
AAG017-001	terminal spacing
AAG092-001	package height zone
AAG093-002	stud thread diameter
AAG095-001	stud length
AAG096-001	stud thread
AAG111-001	terminal length
AAG117-001	tag hole width
AAG133-001	non-threaded stud length

DAA046-002 Cylindrical package, top tag terminals, stud mount

AAA452-001 01

clamp mount package

B005

A set of cylindrical clamp-mount package outline styles with upper screw connections in standard form of which each outline style can be described with the same group of data element types.

Properties

i i operties	
AAG001-001	seated height
AAG008-001	terminal width
AAG012-001	terminal thickness
AAG014-001	package diameter
AAG017-001	terminal spacing
AAG092-001	package height zone
AAG094-002	terminal thread diameter
AAG097-001	terminal thread

DAA047-002 Cylindrical package, top screw terminals, clamp mount

AAA453-002 01

stud mount package

B006

A set of cylindrical stud-mount package outline styles with upper screw connections in standard form of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG008-001	terminal width
AAG012-001	terminal thickness
AAG014-001	package diameter
AAG017-001	terminal spacing
AAG092-001	package height zone
AAG093-002	stud thread diameter
AAG094-002	terminal thread diameter
AAG095-001	stud length
AAG096-001	stud thread
AAG097-001	terminal thread
AAG133-001	non-threaded stud length

DAA048-002 Cylindrical package, top screw terminals, stud mount

AAA454-001 01

non-bumped package

B002

A set of quad flat-pack non-bumped package outline styles with gull-wing leads in standard form of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG002-001	stand-off height
AAG003-001	package height
AAG012-001	terminal thickness
AAG013-001	package length
AAG016-001	package width
AAG017-001	terminal spacing
AAG023-001	overall length
AAG024-001	overall width
AAG052-001	terminal seating angle
AAG053-001	terminal row spacing
AAG076-001	terminal width
AAG077-001	terminal length
AAG080-001	terminal row spacing
AAG109-001	quantity of terminal positions
AAG110-001	quantity of terminal positions

DAA049-001 Quad flat pack, gull-wing leads, nonbumped package

AAA455-001 01

cavity up

B007

A set of pin-grid-array cavity-up package outline styles with round pins of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG002-001	stand-off height
AAG003-001	package height
AAG009-001	terminal diameter
AAG013-001	package length
AAG016-001	package width
AAG017-001	terminal spacing

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AAG078-001lid heightAAG081-001lid lengthAAG082-001lid widthAAG107-001terminal patternAAG109-001quantity of terminal positionsAAG110-001quantity of terminal positionsAAG112-001terminal reference positionAAG113-001terminal reference position

DAA050-001 Pin-grid array package, cavity up

AAA456-001 01

cavity down

B008

A set of pin-grid-array cavity-down package outline styles with round pins of which each outline style can be described with the same group of data element types.

Properties

AAG001-001	seated height
AAG002-001	stand-off height
AAG003-001	package height
AAG009-001	terminal diameter
AAG013-001	package length
AAG016-001	package width
AAG017-001	terminal spacing
AAG078-001	lid height
AAG081-001	lid length
AAG082-001	lid width
AAG107-001	terminal pattern
AAG109-001	quantity of terminal positions
AAG110-001	quantity of terminal positions
AAG112-001	terminal reference position
AAG113-001	terminal reference position

DAA051-001 Pin-grid array package, cavity down

AAA501-001 01

Solid tantalum electrolytics STAN

A set of fixed electrolytic capacitors in which the oxide film formed on the surface of foil, wire or sintered slug of tantalum by anodic oxidation is employed as the dielectric, and solid electrolyte in close contact with this dielectric is employed as a part of the cathode and for which each capacitor is described by the same set of data element types.

AAA502-001 01

Non-solid tantalum electrolytics NTAN

A set of fixed electrolytic capacitors in which the oxide formed on the surface of tantalum by anodic oxidation is employed as the dielectric and paper or fibre impregnated with liquid electrolyte and located in close contact with this dielectric is employed as a part of cathode and for which each capacitor is described by the same set of data element types.

AAA503-001 01

Solid aluminium electrolytics SAL

A set of fixed electrolytic capacitors in which the oxide film formed on the surface of foil, wire or sintered slug of aluminium by anodic oxidation is employed as the dielectric, and solid electrolyte in close contact with this dielectric is employed as a part of cathode and for which each capacitor is described by the same set of data element types.

Properties

AAJ007-001 built-in fuse

AAA504-001 01

Non-solid aluminium electrolytics NAL

A set of fixed electrolytic capacitors in which the oxide formed on the surface of aluminium foil by anodic oxidation is employed as the dielectric and paper or fibre impregnated with liquid electrolyte and located in close contact with this dielectric is employed as a part of the cathode and for which each capacitor is described by the same set of data element types.

AAA505-001 01

Fixed mixed-dielectric capacitors MIX

A set of fixed capacitors in which the dielectric is formed from layers of two or more different materials and for which each capacitor is described by the same set of data element types.

AAA509-001 01

Fixed precision resistors

A set of fixed resistors having stable characteristics for which each resistor is described by the same set of data element types.

AAA510-001 01

Fixed power resistors

PWR

PREC

A set of fixed resistors intended for high-power applications for which each resistor is described by the same set of data element types.

Properties

AAJ009-001 structure

AAA511-001 01

Fixed low-power resistors

LP

A set of fixed resistors intended for low-power applications for which each resistor is described by the same set of data element types.

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AAA512-001 01

Fixed chip resistors CHIP

A set of fixed resistors intended for surface-mount applications for which each resistor is described by the same set of data element types.

AAA513-001 01

Fixed thermostat resistors THERM

A set of fixed resistors for use in thermostats for which each resistor is described by the same set of data element types.

Properties

AAJ013-001 tolerance of TC of resistance

AAA514-001 01

Fixed fusing resistors

FUS

A set of fixed fusing resistors for which each resistor is described by the same set of data element types.

Properties

AAJ011-001 fusing power

AAA516-002 01

Preset potentiometers

PRESET

A set of potentiometers which are intended to provide a fixed resistance ratio once the slider position has been set for which each potentiometer is described by the same set of data element types.

NOTE

PRESET POTENTIOMETERS are potentiomers which can be mechanically adjusted with a tool but which are not intended for adjustment during normal operation.

Properties

AAE173-005	total mechanical rotation
AAJ015-001	rotation torque
AAJ017-001	adjustment direction
AAJ018-001	sealing class
AAJ123-001	potentiometer type
AAJ124-001	number of turns

AAA517-001 01

Linear slide potentiometers SLIDE

A set of potentiometers in which adjustment is performed by the linear movement of a slider and for which each potentiometer is described by the same set of data element types.

NOTE

LINEAR SLIDE POTENTIOMETERS are potentiometers which can be mechanically adjusted by moving the adjuster along a linear path.

Properties

AAJ019-001 slide length AAJ020-001 slide force AAJ021-001 lever stop force

AAA518-001 01

Circular connectors

CIRC

RECT

PCB

A set of connectors with circular shell or housing for which each connector is described by the same set of data element types.

AAA519-001 01

Rectangular connectors

A set of connectors with contacts in a rectangular or near-rectangular array for which each connector is described by the same set of data element types.

AAA520-001 01

PCB connectors

A set of connectors intended for use with printedcircuit boards for which each connector is described by the same set of data element types.

Properties

AAJ022-001 PCB connector type AAJ040-001 circuit board thickness

AAA521-001 01

RF connectors

RF

A set of connectors intended for use at radio frequencies for which each connector is described by the same set of data element types.

Properties

AAE487-005	frequency band
AAF260-005	characteristic impedance
AAJ041-001	voltage standing wave ratio

AAA522-001 01

Connectors for IC cards

IC

A set of connectors intended for use with IC cards for which each connector is described by the same set of data element types.

Properties

AAJ040-001 circuit board thickness

AAA523-001 01

Modular connectors

MOD

A set of modular connectors for which each connector is described by the same set of data element types.

AAA524-001 01

Connector contacts

CONTACT

A set of connector contacts of which each contact can be described with the same group of data element types.

NOTE

CONNECTOR CONTACTS are the conducting parts within a connector which mate individually to form the electrical connection.

Properties

AAE350-005 contact finish AAE353-005 contact sex AAE358-005 contact current max AAJ023-001 contact type

AAA525-001 01

Connector accessories

ACCY

A set of accessories for connectors of which each accessory can be described with the same group of data element types.

NOTE

CONNECTOR ACCESSORIES are components which may be used with connectors to facilitate their use in a wide range of applications. Accessories perform no electrical function and include such items as caps, covers, gaskets washers and boots.

Properties

AAF465-001 accessory type

AAA526-001 01

Plugs and jacks

A set of plug or jack connectors for which each connector is described by the same set of data element types.

AAJ024-001 plug/jack type

Subclasses

Concentric plugs and jacks
Pin plugs and jacks
Plugs and jacks for dc power
Plug assemblies
Complex jack boards

AAA527-001 01

Sockets

SOCK

JACK

A set of sockets for mounting and connecting to electric/electronic components for which each socket is described by the same set of data element types.

AAJ028-001 socket type

Subclasses

AAA551-001	Sockets for tubes
AAA554-001	Transistor sockets
AAA555-001	Sockets for integrated circuits
AAA556-001	Sockets for PCB
AAA557-001	Power sockets
AAA561-001	Signal sockets
AAA562-001	Sockets for quartz crystals
AAA563-001	Lighting sockets
AAA564-001	Fuse holders and sockets
AAA565-001	Sockets for antenna feeders

AAA528-001 01

Terminals

A set of terminals for which each terminal is described by the same set of data element types.

AAJ031-001 terminal type

Subclasses AAA566-001 Small terminals AAA569-001 Terminal arrays AAA572-001 Terminal boards AAA573-001 Terminal rods

AAA536-001 01

Concentric plugs and jacks CONC

A set of concentric plugs and jacks for which each connector is described by the same set of data element types.

AAJ025-001 concentric plug/jack type

SubclassesAAA537-001Concentric plugsAAA538-001Concentric jacksAAA539-001Concentric multiple jacks

AAA537-001 01

Concentric plugs

PLUG

TERM

A set of concentric plugs for which each plug is described by the same set of data element types.

AAA538-001 01

Concentric jacks

JACK

A set of concentric jacks for which each jack is described by the same set of data element types.

Properties

AAJ045-001 direction of insertion

//001

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AAA539-001 01

Multiple concentric jacks MULT

A set of multiple concentric jacks for which each jack is described by the same set of data element types.

Properties

AAJ045-001 direction of insertion

AAA540-001 01

Pin plugs and jacks

A set of pin plugs and jacks for which each connector is described by the same set of data element types.

AAJ026-001 pin plug/jack type

Subclasses

AAA541-001	Pin plugs
AAA542-001	Pin jacks
AAA543-001	Pin multiple jacks
AAA544-001	Shielded pin jacks

AAA541-001 01

Pin plugs

A set of pin plugs for which each plug is described by the same set of data element types.

AAA542-001 01

JACK Pin jacks

A set of pin jacks for which each jack is described by the same set of data element types.

Properties AAJ045-001 direction of insertion

AAA543-001 01

Multiple pin jacks

MULT

SHLD

A set of shielded pin jacks for which each jack is described by the same set of data element types.

Properties AAJ045-001 direction of insertion

AAA544-001 01

Shielded pin jacks

A set of multiple pin jacks for which each jack is described by the same set of data element types.

Properties AAJ045-001 direction of insertion

AAA545-001 01

Plugs and jacks for dc power PWR

A set of plugs and jacks for use in dc power applications for which each connector is described by the same set of data element types.

AAJ027-001 dc power plug/jack type

Subclasses

AAA546-001 DC power plugs AAA547-001 DC power jacks AAA548-001 Car plugs

AAA546-001 01

DC power plugs

A set of plugs for use in dc power applications for which each plug is described by the same set of data element types.

AAA547-001 01

DC power jacks

JACK

PLUG

A set of jacks for use in dc power applications for which each jack is described by the same set of data element types.

Properties

AAJ045-001 direction of insertion

AAA548-001 01

Car plugs

CAR

A set of plugs for use in dc power applications in automobiles for which each plug is described by the same set of data element types.

AAA549-001 01

Plug assemblies

ASSY

CMPLX

A set of plug assemblies for which each assembly is described by the same set of data element types.

AAA550-001 01

Complex jack boards

A set of complex jack boards for which each jack board is described by the same set of data element types.

PIN

PLUG

AAA551-001 01

TUBE Sockets for tubes

A set of sockets for mounting and connecting to vacuum tubes for which each socket is described by the same set of data element types.

Properties

AAJ029-001 tube socket type

AAA554-001 01

Transistor sockets

A set of sockets for mounting and connecting to transistors for which each socket is described by the same set of data element types.

AAA555-001 01

Sockets for integrated circuits IC

A set of sockets for mounting and connecting to integrated circuits for which each socket is described by the same set of data element types.

Properties

AAJ046-001 package type

AAA556-001 01

Sockets for PCB

PCB

TRA

A set of sockets for mounting and connecting to PC boards for which each socket is described by the same set of data element types.

AAA557-001 01

Power sockets

PWR

SIG

A set of connectors for which each connector is described by the same set of data element types.

Properties

AAE512-005 contact voltage (ac) AAE515-005 contact current (ac) contact current (dc) AAF106-005 AAF107-005 contact voltage (dc) power socket type AAJ030-001 AAJ047-001 switch type

AAA561-001 01

Signal sockets

A set of sockets for which each socket is described by the same set of data element types.

AAA562-001 01

Sockets for quartz crystals **XTAL**

A set of sockets for mounting and connecting to quartz crystals for which each socket is described by the same set of data element types.

AAA563-001 01

Lighting sockets LIGHT

A set of sockets intended for use in lighting applications for which each socket is described by the same set of data element types.

AAA564-001 01

Fuse holders and sockets

A set of sockets or holders for mounting and connecting to fuses for which each socket or holder is described by the same set of data element types.

AAA565-001 01

Sockets for antenna feeders ANT

A set of sockets intended for connection to antenna feeders for which each socket is described by the same set of data element types.

AAA566-001 01

Small terminals SM

A set of small terminals for which each terminal is described by the same set of data element types.

NOTE

SMALL TERMINALS are terminals which typically only have the facility for connecting one, two or three conductors.

Properties

AAJ032-001 small terminal type

AAA569-001 01

Terminal arrays

ARRY

FUSE

A set of terminal arrays for which each array is described by the same set of data element types.

Properties

AAJ033-001 terminal array type

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AAA572-001 01

Terminal boards BRD

A set of terminal boards for which each terminal board is described by the same set of data element types.

AAA573-001 01

Terminal rods ROD

A set of terminal rods for which each terminal rod is described by the same set of data element types.

AAA575-001 01

Current-activated fuses

A set of fuses activated by excess current for which each fuse is described by the same set of data element types.

AAA576-001 01

Thermally-activated fuses THERM

A set of thermally-activated fuses for which each fuse is described by the same set of data element types.

Properties

AAJ036-001 active element

AAA578-001 01

Fibre optics

FIBOPTIC

CUR

A set of fibre optic devices for which each component can be described by the same set of data element types.

AAJ048-001 fibre optic component

Subclasses

AAA579-001	Fibre optic links
AAA580-001	Fibre optic connectors
AAA581-001	Fibre optic switches
AAA582-001	Fibre optic branches
AAA583-001	Fibre optic couplers/splicers
AAA584-001	Fibre optic attenuators
AAA585-001	Fibre optic detectors
AAA586-001	Fibre optic isolators
AAA587-001	Fibre optic networks
AAA588-001	Fibre optic light sources
AAA589-001	Fibre optic modulators
AAA590-001	Fibre optic transmitters and receivers
AAA591-001	Optical waveguiders
AAA592-001	Fibre optic cables
AAA593-001	Fibre optic filters
AAA594-001	Fibre optic lenses

AAA579-001 01

Fibre optic links

A set of fibre optic links for which each component can be described by the same set of data element types.

AAA580-001 01

Fibre optic connectors

CONN

LINK

A set of fibre optic connectors for which each connector can be described by the same set of data element types.

AAA581-001 01

Fibre optic switches SWI

A set of fibre optic switches for which each switch can be described by the same set of data element types.

AAA582-001 01

Fibre optic branches

A set of fibre optic branches for which each component can be described by the same set of data element types.

AAA583-001 01

Fibre optic couplers/splicers COUP

A set of fibre optic couplers or splicers for which each component can be described by the same set of data element types.

AAA584-001 01

Fibre optic attenuators

ATT

BRA

A set of fibre optic attenuators for which each component can be described by the same set of data element types.

AAA585-001 01

Fibre optic detectors

A set of fibre optic detectors for which each component can be described by the same set of data element types.

AAA586-001 01

Fibre optic isolators

ISOL

DET

A set of fibre optic isolators for which each component can be described by the same set of data element types.

AAA587-001 01

Fibre optic networks NETW

A set of fibre optic networks for which each network can be described by the same set of data element types.

AAA588-001 01

Fibre optic light sources SOURC

A set of light sources for use in fibre optic systems for which each light source can be described by the same set of data element types.

AAA589-001 01

Fibre optic modulators MOD

A set of fibre optic modulators for which each component can be described by the same set of data element types.

AAA590-001 01

Fibre optic transmitters/receivers TXRX

A set of fibre optic transmitters and receivers for which each component can be described by the same set of data element types.

AAA591-001 01

Optical waveguiders WG

A set of optical waveguiders for which each component can be described by the same set of data element types.

AAA592-001 01

Fibre optic cables

САВ

A set of fibre optic cables for which each cable can be described by the same set of data element types.

AAA593-001 01

Fibre optic filters

FIL

LENS

A set of fibre optic filters for which each filter can be described by the same set of data element types. **AAA594-001 01**

Fibre optic lenses

A set of lenses for use with fibre optic systems for which each lens can be described by the same set of data element types.

AAA595-001 01

Spark gaps

A set of spark gaps of which each can be described with the same group of data element types.

Properties

AAJ082-001 dc breakdown voltage AAJ083-001 breakdown voltage tolerance AAJ084-001 capacitance AAJ087-001 insulation resistance

AAJ081-001 spark gap type

Subclasses

AAA605-001	Air spark gaps
AAA606-001	Gas-filled spark gaps

AAA596-001 01

Resonators

RESON

SPARK

A set of resonators of which each can be described with the same group of data element types.

Properties

AAJ088-001	resonator type
AAJ089-001	resonant frequency
AAJ090-001	quality factor

AAA597-001 01

Image pickup devices

IMAGE

A set of image pickup devices of which each device can be described with the same group of data element types.

Properties

AAJ074-001 image pickup device type

AAA601-001 01

Fixed inductors

FIX

A set of variable inductors of which each inductor can be described with the same group of data element types.

AAF390-002 type of inductor

Subclasses	
AAA225-001	Deflection units
AAA226-001	Chokes
AAA227-001	Coils
AAA228-001	Linearity control units
AAA603-001	Antenna inductors
AAA604-001	Solenoids

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AAA602-001 01

Variable inductors VAR

A set of fixed inductors of which each inductor can be described with the same group of data element types.

Properties

AAJ078-001	variable inductor type
AAJ079-001	minimum inductance
AAJ080-001	maximum inductance

AAA603-001 01

Antenna inductors ANT

A set of inductors for use with antennas of which each inductor can be described with the same group of data element types.

AAA604-001	01	

Solenoids	SOL

A set of solenoids of which each solenoid can be described with the same group of data element types.

AAA605-001 01

Air spark gaps

AIR

A set of air spark gaps of which each spark gap can be described with the same group of data element types.

AAA606-001 01

Gas-filled spark gaps

GAS

A set of gas-filled spark gaps of which each spark gap can be described with the same group of data element types.

Properties

AAJ085-001 withstanding voltage AAJ086-001 surge current

AAA607-001 01

Rotary precision potentiometers PRECROT

A set of precision potentiometers with continuouslyvariable rotary adjustment for which each potentiometer is described by the same set of data element types.

NOTE

PRECISION ROTARY POTENTIOMETERS are potentiometers for which the mechanical adjustment is achieved by turning a shaft and whose position can be set with a high degree of precision.

Properties

AAE145-005	spindle material of potentiometer
AAE147-005	spindle length
AAE148-005	spindle diameter
AAE173-005	total mechanical rotation
AAJ014-001	potentiometer size
AAJ015-001	rotation torque
AAJ123-001	potentiometer type
AAJ124-001	number of turns

AAA608-001 01

Power rotary potentiometers

PWRROT

A set of power potentiometers with continuouslyvariable rotary adjustment for which each potentiometer is described by the same set of data element types.

NOTE

POWER ROTARY POTENTIOMETERS are potentiometers for which the mechanical adjustment is achieved by turning a shaft and which are typically capable of dissipating powers of more than 10 W.

Properties

AAE145-005	spindle material of potentiometer
AAE147-005	spindle length
AAE148-005	spindle diameter
AAE173-005	total mechanical rotation
AAJ014-001	potentiometer size
AAJ015-001	rotation torque
AAJ123-001	potentiometer type
AAJ124-001	number of turns

AAA609-001 01

Low-power rotary potentiometers LPROT

A set of low-power potentiometers with continuouslyvariable rotary adjustment for which each potentiometer is described by the same set of data element types.

NOTE

LOW-POWER ROTARY POTENTIOMETERS are potentiometers for which the mechanical adjustment is achieved by turning a shaft and which are typically able to dissipate powers up to 10 W.

Properties

AAE145-005	spindle material of potentiometer
AAE147-005	spindle length
AAE148-005	spindle diameter
AAE173-005	total mechanical rotation
AAJ014-001	potentiometer size
AAJ015-001	rotation torque
AAJ123-001	potentiometer type
AAJ124-001	number of turns

AAA610-001 01

Connector parts CONPART

A set of connector parts of which each part can be described with the same group of data element types.

NOTE

CONNECTOR PARTS are components which may be used to assemble complete connectors, which are used as accessories to a connector or which are needed in the assembly or disassembly of connectors.

AAF464-001 connector part type

Subclasses

AAA524-001	Connector contacts
AAA525-001	Connector accessories
AAA611-001	Connector tools
AAA612-001	Connector shells
AAA613-001	Connector inserts

AAA611-001 01

Connector tools

TOOL

A set of connector tools of which each tool can be described with the same group of data element types.

NOTE

CONNECTOR TOOLS are tools which are needed for the assembly, disassembly, installation or repair of connectors. They include such items as spanners, keys, jigs and gauges.

Properties

AAF466-001 tool type

AAA612-001 01

Connector shells

SHELL

A set of connector shells of which each shell can be described with the same group of data element types.

NOTE

CONNECTOR SHELLS are the external housing of connectors which normally provide the mechanical mating.

Properties

AAE351-006 housing material AAF467-001 shell type

INSERT

AAA613-001 01

Connector inserts

A set of connector inserts of which each insert can be described with the same group of data element types.

NOTE

CONNECTOR INSERTS are formed from insulating material and provide the mechanical support for the connector contacts within the connector shell.

Properties

AAF468-001 insert type AAF469-001 insert material

Annex C

(normative)

Data element type definitions

AAD00	1-001	02 simple	M17 string	A52	AAD004-001	01 simple	M4 non-quantitative cod	A52 le
die ide	ntifier		die ID		die type code	e	die code	
A code die	based	on the IEC	60191 code to identi	fy the	The mnemoni the die or waf	c code for t er is supplie	he physical form in w ed	hich
NOTE The code has the form A-XBCC-Dnn/mmm, where A is a shape class codeBARE = bare die with pack without connectionA is a shape class codeBUMP = bare die with bur DUAL = bare die with pack LEAD = bare die with dut DUAL = bare die with dut dut dut MPD = minimally packag IEC 62258mmm is a sequence number to distiguish 		ds on one side and on structure nped pads ds on both surfaces ached lead frame ged die device s original form, then the Die with codes BUMF pocessed to add the so ne respectively.	he ? or older					
AAD00	2-001	01 simple	M17 string	A52	AAD005-001	01	M17	A57
die nan	ne		die name		oubotroto ma	simple	sung	
The nar manufa	me or i cturer.	dentifier giv	ren to the die by the		The constitution of the bulk material which forms the			
IEC 622	258				IEC 62258	e process to	echnology	
AAD00	3-001	01 simple	M17 string	A52	REMARKS: In most cases	the substra	ate is composed of a	single
die ver	sion		die version					

The code given by the manufacturer to identify the version of the die.

AAD006-001	02	M4	A56
	simple	non-quantitative code	Э

connection requirement code conn req code

The mnemonic code used to identify the requirement for electrical connection to the die substrate.

CONN= must be connected

ISOL = must be isolated

N/A = not applicable

- N/K = requirement not known
- OPT = connection optional

IEC 62258

REMARKS:

Where the value of the code is ISOL, no connection may be made to the substrate.

Where the value of the code is OPT, connection to the substrate is optional but any connection made must be to the supply as defined by substrate connection.

Where the value of the code is CONN, a connection from the substrate to a terminal on the die or to a supply terminal is mandatory.

Where the value of the code is N/A connection to the substrate is not appropriate or not possible. Where the value of the code is N/K no information on

the connection requirement is available.

AAD007-001	01	M17	A56
	simple	string	

substrate connection substr conn

The name of the supply connection to which a substrate connection, if required, must be made.

NOTE

A value is not required when the substrate must be isolated.

IEC 62258

REMARKS:

The value to be assigned is the name of a supply connection which is defined elsewhere within a database.

AAD008-001	01	M17	A59
	simple	string	

die test level code test level

The code or designation given by a manufacturer to the schedule of tests applied to assess the performance characteristics and to conduct burn-in for a die.

IEC 62258

AAD009-001 01 NR2..2.2 Q59 level minTyp real measure

yield	yield
	yield

The fraction of die (in %) as specified by level (minTyp) which function according to specification on delivery to a customer.

NOTE

die

For low defect rates, yield and DPM (in 10^{-6}) are related by the formula yield = 100 - DPM/1.0E4

IEC 62258

REMARKS:

Where a minimum figure is quoted, this will normally be a guarantee of delivered quality. Where a typical figure is given, this is to be interpreted as an average for the processes employed.

AAD010-001	01	M70	A58
	simple	string	

die description die desc

A description of the physical form of the die including information on solder bumps and lead frame where applicable.

IEC 62258

AAD011-001	01	NR2 S3.3	Т03
	level nom	real measure	
		m	

wafer size

W_size W_{size}

The diameter of the wafer on which the die is fabricated

NOTE

Since this is only a nominal value for information purposes, inch dimensions should be converted at the rate of 25 mm to one inch.

AAD012-001	02	NR14	Q56
	level nom	integer measure	
		1	

termination numbern_termtermination identifiern_term

A numeric value which identifies the termination uniquely for each device.

IEC 62258

REMARKS:

Where the manufacturer has allocated a unique number to each terminal, that numbering identification should be used. When that is not the case, for devices with terminals around the periphery, numbers should be allocated in an anticlockwise direction starting with the terminal nearest to the top left-hand corner of the die as viewed from the side containing the terminals.

AAD013-001	01 simple	M17 string		A91
manufacture	r pad identi	ifier	manuf pad ID	
The identifica manufacturer	tion allocate in his data	ed to a sheet.	pad by the	
IEC 62258				

AAD014-001	01	M17	A91
	simple	string	

pad geometry name pad geom name

The name given to identify a particular pad geometry.

IEC 62258

REMARKS:

The name used is arbitrary and is only used as a link between a pad geometry definition and a pad instance. The name must be unique within the list of names for any particular die. level nom real measure m

pad x

T03

pad_x

The value (in m) of the x-coordinate of the geometric centre of a pad referred to the geometric origin of the die as origin.

NOTE

pad x position

For polygonal pads, the geometric centre of the pad is taken as mid-way between the extremes of the x and y dimensions

IEC 62258

DAE002-001 Die dimensions

AAD016-001	01 level nom	NR3 S3.3ES2 real measure m	Т03
pad y position		pad y pad _v	

The value (in m) of the y-coordinate of the geometric centre of a pad referred to the geometric origin of the die as origin

NOTE

For polygonal pads, the geometric centre of the pad is taken as mid-way between the extremes of the x and y dimensions

IEC 62258

DAE002-001 Die dimensions

AAD017-001	02	M7	A58	
	simple	string		

pad orientation pad orientation

The orientation code for a pad related to reference axes

NOTE

The pad orientation is given by the angle of clockwise orientation, in degrees, followed optionally by letter codes to indicate mirroring. If the letters MX are included the orientation of the pad is mirrored in the X-axis, whilst if the letters MY are included the orientation of the pad is mirrored in the Y-axis. Both MX and MY may be present simultaneously and all mirroring shall be done about the geometric reference centre of the terminal shape. The mirroring operation (if any) shall be carried out first, then the terminal shall be rotated by the orientation angle.

AAD018-001	01 level nom	NR12 Q integer measure	56	AAD02	2-001	01 simple	A2 non-quantitati	A56 ve code
number of bond sites bond sites			signal direction I/O direction					
		Nbond	bond	The code of the direction of signal flow at a terminal				
The number of bonds can an	of separate d should be	sites on a pad to wh e made.	ich	BI = bidirectional				
IEC 62258				OP =	= outpu	it only		
AAD019-001	01 simple	M35 string	A91	IEC 622	258			
signal name		signal name		AAD02	3-001	01 simple	M17 string	A56
The name giv	en to the si	ignal appearing at th	e	swap c	odes		swap codes	
IEC 62258				The coo	des wh angeat	ich indicate bility of a te	e connection rminal with othe	er terminals.
				IEC 622	258			
AAD020-001	01 simple	M8 non-quantitative cc	A91 ode					
signal type		signal type		AAD02	4-001	02 simple	A4 non-quantitati	A58 ve code
The code of the type of signal associated with a terminal.		h a	pad sh	ape		pad shape		
		na	The code of the shape of a bonding pad on a die.					
NOTE The value sho digital, or whe provides a su	ows whethe other conne pply or non	r the signal is analoget to the terminal -logic function, etc.	gue or	CIRC = ELL = POLY = RECT =	= circul = ellipti = polyg = recta	ar cal onal ngular		
A = analo B = digita	ogue signal al bidirectio	nal		IEC 622	258			
G = ground I = digital input N = not connected O = digital output T = test point U = unknown connection V = supply voltage X = internally connected IEC 62258				AAD02	5-001	01 level nom	NR33.3ES2 real measure m	Т03
			pad ler	ngth		b b		
			The length (in m) of a rectangular or elliptical pad measured in a direction parallel to the x-axis.					
				IEC 62258				
AAD021-001	u1 simple	M17 string	A91	DAE00	2-001	Die dimens	ions	
electrical ref	erence	elect ref						

A reference to a definition of a power supply or logic signal connection

NOTE

The value to be assigned must be a name which has been given to a signal definition in a power, digital or analogue connection table.
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AAD026-001	01 level nom	NR33.3ES2 real measure m	Т03	AAD030-001	01 level nom	NR3 S3.3ES2 real measure m	Т03
pad width		c c		vertex y-coo	rdinate	y_v y _v	
The width (in measured in a	m) of a rect a direction p	angular or elliptical paper of the second seco	ad	The value (in polygonal pac	m) of the y- l relative to	coordinate of a vertex the centre of the pad.	k of a
IEC 62258				IEC 62258			
DAE002-001	Die dimensi	ons					
				AAD031-001	01 simple	A3 non-quantitative cod	A56 e
AAD027-001	01 level nom	NR12 integer measure 1	Q56	supply varia	bility	variability	
number of po	olygon vert	ices n_v		The code indi or variable.	cating whe	ther a power supply is	s fixed
The number o	of vertices o	f a polygonal pad.		FIX = VAR =	fixed supply variable sup	, oply	
IEC 62258				IEC 62258			
REMARKS: A polygonal p	ad must ha	ve at least three vertion	ces.	AAD032-001	02 level miNo	NR2 S3.3 Max real measu V	E06 re
AAD028-001	01 level nom	NR12 integer measure 1	Q56	supply volta	ge	V_sup V _{sup}	
vertex numb	er	v_p v _p		The value as voltage (in V)	specified by connected	Ievel (miNoMax) of a to the supply terminal	dc of an
The vertex nu	imber of a p	olygonal pad.		NOTE	oun.		
IEC 62258				For a fixed su the minimum	ipply, the no and maximu	ominal value is given v um giving the maximum	with m
AAD029-001	01 level nom	NR3 S3.3ES2 real measure m	Т03	For a variable maximum value range of supp	e supply volt ues are the ly voltages.	age, the minimum and permissible extremes	d of the
vertex x-coo	rdinate	x_v x _v		IEC 62258			
The value (in polygonal pac	m) of the x- d relative to	coordinate of a vertex the centre of the pad	x of a	AAD033-001	01 level max	NR33.3ES2 real measure A	E01
IEC 62258				pad supply c pad current	urrent	l_pad I _{pad}	
				The absolute	maximum v	alue of the current (in	A)

that should flow through a single bond site on a supply pad.

AAD049-001	01	M17	A91
	simple	string	

supply name supply name

The name given to a terminal for the supply of power to a device.

IEC 62258

REMARKS: Names commonly used include Vcc, Vss, Vdd, GND, V+ and V-.

AAD054-001	01 NR3	S3.3ES2	E01		
	level typMax A	real meas	real measure		
supply curre	nt l_sup)			

Isup

The total value as specified by level (typMax) of the dc current (in A) passing through all terminals of an integrated circuit connected to the same supply voltage.

NOTE

The values are given for the maximum value of the corresponding supply voltage.

IEC 62258

AAD055-001	01	M8	A53
	simple	set of non-quantitativ	'e
codes			

supply packing code packing code

The mnemonic code for the form of packing used for the supply of a die or wafer.

BOX= supplied unsawn in wafer boxesFILM= supplied sawn on plastic filmGELFRAME=supplied in GEL-PAKTM for sawn
wafersGELPAK= supplied in GEL-PAKTMSURFTAPE=supplied on SurfTapeTMTAPE= supplied on embossed tapeWAFFLE= supplied in waffle pack or tray

IEC 62258

AAD056-001	01 simple	M8 non-quantitative code	A55
supply form	code	supply code	

The mnemonic code for the form in which the die is supplied either in wafer form or as an individual dice

BARE	= individual	die	without	connection
	structures			
BUMP	= individual bu	Imped	die	
MPD	 individua packaged fc 	l di orm	ie in	minimally
SAWN	= sawn wafer			
WAFER	= unsawn wafe	ər		

IEC 62258

AAD060-001	01	M2000	A11
	simple	string	

test procedure description test procedure

A description of the procedures used in the test and evaluation of a die.

IEC 62258

AAD070-001	01 level nom	NR33.3ES2 real measure m	Т03
die step dime	ension x	D	

The nominal value (in m) of the step interval of die patterns on a wafer measured in the direction of the x axis of the coordinate system established for the wafer.

IEC 62258

REMARKS:

The length of the die will normally be closely related to the step interval but the precise value depends on width of saw cuts, tolerances, etc.

DAE002-001 Die dimensions

AAD071-001	01 level nom	NR33.3ES2 real measure m	Т03	AAD082-001	01 simple	M35 string	A59
die eten dim		-		test name		test name	
die step dim die width	ension y	E		A short title for evaluation of	or the pro a die.	cedures used	in the test ar
The nominal patterns on a y-axis of the wafer.	value (in m) wafer meas coordinate s	of the step interval sured in the directio system established t	of die n of the for the	NOTE This is a shor fully in AAD0	t name fo 60-001.	r a procedure	described m
IEC 62258				IEC 62258			
REMARKS: The width of to the step in width of saw	the die will ı terval but th cuts, tolerar	normally be closely le precise value dep nces, etc.	related ends on	AAD085-001	01 simple	M35 string	A
	Die dimens	ions		die type		die type	
DALOOZ-OOT	Die dimens	10113		A short title for	or the phy	rsical form of a	i die or wafer
AAD072-001	01 level nom	NR33.3ES2 real measure m	Т03	NOTE This is a shor in AAD084-00 meanings froi	t title for 01. The va m AAD004	the form desci alue list consis 4-001.	ibed more fu its of the valu
die thicknes wafer thickne thickness	s :SS	A A		IEC 62258			
The perpendi plane faces c	cular distan of a die or w	ce (in m) between t afer.	he two	AAD086-001	01 simple	M175 string	Α
IEC 62258				die type des	cription	die desc	
DAE002-001	Die dimens	ions		The description wafer.	on of the	physical form	of a die or
AAD078-001	01 simple	M35 string	A57	IEC 62258			
passivation	material	passivation		AAD087-001	01 simplo	M35	A
The material	used to cov	er the surface of the	e die for		Simple	stillig	
passivation.				supply form		supply for	m
IEC 62258				A short title for supplied.	or the forr	n in which a d	ie or wafer is
AAD081-001	01 simple	A1 non-quantitative co	A58 ode	NOTE This is a shor in AAD086-00	t title for	the form desci	ibed more fu
die surface		die surface			,		
The code ide pad is situate	ntifying the d when pad	surface of a die on s exist on both surf	which a aces.	IEC 02258			
NOTE The value ma	av be blank '	when pads exist on	only one	AAD088-001	01 simple	M175 string	A
surface of the	é die.		,	supply form	descripti	on supply for	m des
в =	bottom surf	ace		The description	on of the	form in which	a die or wafe

B U = upper surface

IEC 62258

ore

AAD085-001	01 simple	M35 string	A52
		-	

ully ue

AAD086-001	01 simple	M175 string	A52
die type dese	cription	die desc	
The descriptio wafer.	on of the phy	ysical form of a die or	
IEC 62258			
AAD087-001	01 simple	M35 string	A55
supply form		supply form	
A short title for supplied.	or the form i	n which a die or wafer	is
NOTE This is a shor in AAD086-00	t title for the)1.	form described more	fully
IEC 62258			
AAD088-001	01 simple	M175 string	A55
supply form	description	supply form des	
	<i>.</i>		<i>.</i> .

er is supplied.

			– 110 –		61360)-4 © IEC:2005(E)	
AAD089-001	01 N simple	135 string	A53	AAD115-00	01 01 simple	M17 non-quantitative cod	A58 de
supply packi	ng	packing		geometric	units	geometric units	
A short title fo of a die or wa	or the form o fer.	of packing used	for supply	The code ic dimensions	lentifying the are given.	units in which die	
NOTE This is a shor in AAD088-00	t title for the)1.	form describe	d more fully	NOTE To comply in metres (r	with IEC 6136 n) and these	60, the units should b will be the default un	e given its.
IEC 62258				µm = mic m = me mil = mil	crometre (mic tre (1.0E-3 inch)	ron)	
AAD090-001	01 simple	M175 string	A53	mm = mil	limetre	,	
supply packi	ng descript	tion packing	g desc	IEC 62258			
The descriptic supply of a di	on of the for e or wafer.	m of packing u	sed for the	AAD116-00	1 01 level nom	NR14 integer measure 1	Q56
IEC 62258				pad geome	etry count	՝ n_g րգ	
AAD091-001 connection r	01 simple equirement	M35 string conn req	A56	The numbe which differ allocated.	r of different ent pad geon	pad shapes on a die t netry names have bee	to en
The requirem substrate.	ent for elect	rical connectio	n to the die	IEC 62258			
IEC 62258				AAD117-00	1 01 level nom	NR33.3ES2 real measure m	Т03
AAD093-001	01 simple	M175 string	A56	size tolera	nce	S_tol	
substrate co	nnection	subst conn d	esc	The toleran	ce (in m) on t	the length and width	
Description of connection to	f the require the substra	ment, if any, of te of a die.	fa	dimensions of a die.			
IEC 62258				IEC 62258			
AAD095-001	02 simple	X1 string	A59	AAD118-00	1 01 level nom	NR33.3ES2 real measure m	Т03
die yield cod	е	yield code		thickness	tolerance	T_tol	
The single-ch yield figures f	aracter code or a die.	e giving the rar	ige of actual	The toleran wafer.	ce (in m) on t	the thickness of a die	or
NOTE The code is a to F.	single hexa	idecimal digit ii	n the range 0	IEC 62258			

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AAD119-001	01 simple	M35 string	A55	AAD123-001	01 level miNoN	NR33.3I Max m	E S2 T(real measure	13
backside fini	sh	backside finish						
The finish app die opposite t	olied to the s o that to wh	surface of the substra ich the connections a	ite of a ire	bumped heig	Int	A_1 A ₁		
made.				The perpendic	cular distand	ce (in m) a	is specified by	
IEC 62258				bumps rest ar	nd the top su	urface of a	bumped die.	
				IEC 62258				
AAD120-001	01 simple	M70 string	A57	REMARKS:	height of a l	bumped di	ie will normally	he
pad metallisation metallisation less than A ₁ .		noight of a f	eight of a bumped die win normally be					
The material connection is	used to form made.	i the pads on a die to	which	DAE003-001	Bumped die	dimensio	ns	
NOTE The information	on given sho	ould include the mate	rials	AAD124-001	01 simple	M35 string	AS	57
used and the thickness of an layers.			bump materi	al	bump ma	aterial		
IEC 62258				The material die.	used to form	the bump	os on a bumpec	1
AAD121-001	01 level nom	NR33.3ES2 real measure m	Т03	IEC 62258				
pad diameter	r	\$fb Øb		AAD125-001	01 simple	M35 string	AS	57
The nominal of	diameter (in	m) of a circular pad.		lead-frame m	naterial	lead mate	erial	
IEC 62258				The material attached lead	used to form frame.	the leads	on a die with	
AAD122-001	01 simple	M70 string	A58	IEC 62258				
bump size		bump size		AAD126-001	01 simple	M70 string	AS	55
Description of bumps on a b	f the size, sl umped die.	hape and height of the	e	underfill		underfill		
IEC 62258				Details of any underfill betw packaged dev	requiremen een a bumpo vice and its r	its or reco ed die or a nounting s	mmendations fo a minimally- surface.	or

AAD127-001	01 simple	M35 string		A58	AAI
die picture		die pictu	re		test
Reference to of the die whi	a file or doo ch shows th	ument con e positions	itaining a pi s of all pads	cture	The die
IEC 62258					A D
AAD129-001	01 level nom	NR3 S3. real meas m	3ES2 sure	Т03	K N S X
die centre x-	position	X_0 X ₀			IEC
The nominal of direction of the die from the c	distance (in le geometric leometric or	m) measu centre on	red in the x- the surface	e of a	ΑΑΙ
IEC 62258		igin.			tem
					T
DAE002-001	Die aimensi	ons			test
AAD130-001	01 level nom	NR3 S3. real meas m	3ES2 sure	Т03	A C H K
die centre y-	position	Y_0 Y ₀			S X
The nominal of direction of the directio	distance (in le geometric geometric or	m) measui centre on igin.	red in the y- the surface	e of a	IEC
IEC 62258	, ,	0			AA
DAE002-001	Die dimensi	ons			pro
AAD131-001	01	NR22.2		Q59	Lest
	level typMa	ax ppm	real measur	re	The burr

defect rate	DPM
	DPM

The average fraction of die (in parts per million) which which may be expected to be defective on delivery to a customer.

NOTE

For low defect rates, DPM and yield (in %) are related by the formula DPM = 1.0E4*(100 - yield)

IEC 62258

REMARKS:

Where a maximum figure is quoted, this will normally be a guarantee of delivered quality. Where a typical figure is given this is to be interpreted as an average for the processes employed.

AAD1	32-001	01 simple	X1 non-quantitativ	A59 e code	
test fl	ow		test flow		
The co die or	ode for t wafer.	the basic te	est procedures a	pplied to a	
 A = ac and dc tests D = dc tests only K = ac and dc tests with full function N = not tested S = ac and dc tests at full speed X = no data available 					
IEC 62	2258				
AAD1	33-001	01 simple	X1 non-quantitativ	A59 e code	
temperature specification test temp test temperatures					
The co tests a	ode for f applied	the basic to to a die or	emperature spec wafer.	ification for	
A C H K S X	 A = ambient only C = cold, hot and ambient (three tests) H = hot and ambient (two tests) K = full range to specification S = coverage to special requirements X = no data available 				
IEC 62	2258				
AAD1	34-001	01 simple	X1 non-quantitativ	A59 e code	
proce test o	ss opti otions	ons	options		
The co burn-i	ode for t n applie	the basic o d to a die o	ptions of test, in or wafer.	spection and	
B K L M R	= burn- = speci = lot-ac = scan = radia	in (100%) al KGD tes ceptance f ning electro tion	st, wafer level testing on microscope		

- = special stress tests at wafer probe
- S V = visual inspection
- Х = no data available

AAD137-0	01	01 simple	X1 non-quantitative coo	A52 de	AAD144-001	01 simple	M8 non-quantitative cod	A58 e
conformi	ty le	evel	conformity		geometric vi	ew	geometric view	
The code relevant p	to ir art o	ndicate the l of ES 59008	evel of conformity wi as defined in ES 59	ith a 0008-1	The code that apply to all ge die device	t specifies tl eometric sha	he geometric view tha apes used in drawings	t shall s of a
$ \begin{array}{rcl} 1 & = c \\ 2 & = c \\ 3 & = c \\ \end{array} $	onfo onfo onfo	ormity level ormity level : ormity level :	1 2 3		BOTTOM =	viewed from (non-active viewed from	n the bottom side) n the top (active side)	
IEC 62258	3				IEC 62258			
AAD140-0	01	01 simple	M35 string	A21	AAD145-001	01 simple	NR14	Q56
die manu	fact	urer	manufacturer			Simple	1	
The origin	al m	nanufacture	r of the die device		terminal cou	nt	n_2 n ₂	
IEC 62258	3				The total num	ber of termi	inals on a die device	
AAD141-0	01	01 simple	M35 string	A21	IEC 62258			
die suppl	ier		supplier		AAD146-001	01 level nom	NR33.3ES2 real measure	Т03
The organ different fi	iisat rom	ion that sup the original	plied the die device, manufacturer	where			m	
IEC 62258	3				bump height		h_b հ⊳	
AAD142-0	01	01 simple	M35 string	A21	The nominal l die measured the die surfac die is mounte	height (in m l as the perp ce and the p d) of the bumps on a b bendicular distance be lane surface on which	umped etween i the
die data s	sour	ce	data source		IEC 62258			
The organ device, wh manufactu	iisat nere irer	ion that sup different fr	plied the data on the om the original	e die	DAE003-001	Bumped die	dimensions	
IEC 62258	3				AAD147-001	01 level minM	NR3 S3.3ES2 ax real measu m	T03 ire
AAD143-0	01	01 simple	M35 string	A51	bump height	tolerance	h_b_tol h _{btol}	
packaged The manu	l pa i fact	rt name urer's type i	packaged part	for an	The tolerance the surface of	e (in m) on tl f a bumped	he height of the bump die	s over
packaged	par	t equivalent	to the die device		IEC 62258			

AAD148-001	01 simple	M17 string	A57	ΑΑΙ
bulk materia	I	bulk material		test
The constituti base of the di different from	ion of the bu ie process to the substra	Ilk material which f echnology where th ite material on whic	orms the lis is th the	The info
active die is f	ormed			K P
IEC 62258				X Y
AAD149-001	01 level max	NR2 S3.3 real measure Cel	H02	IEC
maximum as	sembly terr	nperature T_a	issy	ΑΑΙ
		T _{assy}		test
The maximun backside surf during assem	n temperatu ace of a die bly	re (in Cel) to which device may be rais	the sed	The proc
IEC 62258				D
				N O
AAD150-001	01 simple	M70 string	A57	Р S
encapsulatio	on material	encapsulation		U V
The material coating on an the environme	used to forn electric cor	n an external case nponent to protect	or it from	X Y
IEC 62258				IEC
				AAI
AAD151-001	01 level max	NR33.3ES2 real measure	E35	
		W		MPI
power limit		P_lim P _{lim}		The deli [,]
The maximun semiconducto conditions	n power (in ' or device un	W) dissipated by a der typical worst-ca	ase	IEC
IEC 62258				ΑΑΙ
				fidu
				The
				IEC

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AD153-001	01 simple	X1 non-quantitative code	A59	
est reliabilit	y code	reliability		
he code to in formation fo	ndicate the a or a die devie	availability of reliability ce	,	
C = data = data C = no da C = data	based on se based on pa ata available available on	emiconductor die ackaged counterparts a receipt of NDA		
EC 62258				
AD154-001	01 simple	X1 non-quantitative code	A59	
est maturity	code	maturity		
he code to in rocess for a	ndicate the r die device	maturity of the product	ion	
 = semiconductor die under development = not recommended for new designs = die will soon be made obsolete = pilot production started = die available in sample quantities = die is no longer available = volume manufacture : parameters, yields are stable = no data available = data available on receipt of NDA 				
EC 62258				
AD155-001	01 simple	M35 string	A55	
IPD delivery	/ form	MPD delivery		
he form in w elivered to th	hich a minir ne user	nally-packaged device	is	
EC 62258				
AD156-001	01 simple	M17 string	A91	
iducial name	e	fiducial name		
he name giv	en to identif	y a particular fiducial		
EC 62258				

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REMARKS:

The name used is arbitrary and is only used as a link between a fiducial geometry definition and a fiducial instance. The name must be unique within the list of names for any particular die device.

AAD157-001		01	M35	A62
	simple	string		

fiducial file name fiducial file

The name of a file containing an image of the fiducial on the die device.

IEC 62258

AAD158-001 01 NR3..3.3ES2 T03 level nom real measure m fiducial width x_f

Xf

The nominal length (in m) of a fiducial measured in a direction parallel to the x-axis.

IEC 62258

AAD159-001	01 level nom	NR33.3ES2 real measure m	Т03
fiducial heig	ht	y_f yf	

The nominal width (in m) of a fiducial measured in a direction parallel to the y-axis.

IEC 62258

AAD160-001	01	NR3 S3.3ES2	Т03
	level nom	real measure	
		m	

fiducial x position fid_x

The nominal value (in m) of the x-coordinate of the geometric centre of a fiducial referred to the geometric origin of the die as origin.

IEC 62258

AAD161-001	01	NR3 S3.3ES2	Т03
	level nom	real measure	
		m	

fiducial y position

fid_y fid_y

The nominal value (in m) of the y-coordinate of the geometric centre of a fiducial referred to the geometric origin of the die as origin.

IEC 62258

AAD162-001	02	M7	A58
	simple	string	

fiducial orientation fid orient

The orientation code for a pad related to reference axes.

NOTE

The fiducial orientation is given by the angle of clockwise orientation, in degrees, followed optionally by letter codes to indicate mirroring. If the letters MX are included, the orientation of the fiducial is mirrored in the X-axis, whilst if the letters MY are included the orientation of the fiducial is mirrored in the Y-axis. Both MX and MY may be present simultaneously and all mirroring shall be done about the geometric reference centre of the fiducial shape. The mirroring operation (if any) shall be carried out first, then the fiducial shall be rotated by the orientation angle.

AAE0	00-001	01 simple	X8 non-quantitative code	A52		
IEC re	ference	e class	IEC class			
Code collect	of the m tion to w	ain class in /hich an iten	the IEC reference n belongs.			
CO FEA GEO MA	CO = component FEA = features GEO = geometry MA = material					
AAE0	01-005	01 simple	X3 non-quantitative code	A52		
		•	·····			
main	class of	f componen	nt main class			
main Code compo	class o f of the m onent be	f component nain function alongs.	al class to which a			

AAE002-006	01	X8	A52
	simple	non-quantitative code	Э

category EE component category EE

Code of the category to which an electric-electronic component belongs.

AMP	= amplifier
ANT	= antenna
BAT	= battery
CAP	= capacitor
CND	= conductor
DEL	= delay line
DID	= diode device
FIBOPTIC	= fibre optics
FIL	= filter
IC	= integrated circuit
IND	= inductor
LAM	= lamp
LCD	= liquid crystal display
MIC	= microwave components
OPT	= optoelectronic device
OSC	= oscillator
PE	= piezoelectric device
PWC	= printed wiring components
RES	= resistor
RESON	= resonators
SEN	= sensor
SPARK	= spark gaps
TFM	= transformer
TRA	= transistor
TRG	= trigger device
TUB	= tube
TUN	= tuner

AAE003-006	01	X3	A56
	simple	non-quantitative code	Э

adjustability type adjustability

Code of the type of mechanical adjustability of a capacitor, resistor, inductor or transformer.

FIX	= fixed
VAR	= variable

AAE004-007 01

X..8 non-quantitative code

A57

dielectric material type dielectric type (capacitor) dielectric

simple

Code of the type of dielectric material of a fixed capacitor.

- AIR = fixed air capacitor
- CER = fixed ceramic capacitor
- ELC = fixed electrolytic capacitor
- FLM = fixed film capacitor GLS = fixed glass capacitor
- MICA = fixed mica capacitor
- MIX = fixed mixed-dielectric capacitor
- PAP = fixed paper capacitor

AAE005-00	6 01 X simple	K3 A	\51 e code		
transducer drive unit ty	p rinciple	trans principle	•		
Code of the	transducer p	rinciple of a loud	lspeaker.		
 ELM = electromagnetic loudspeaker ELS = electrostatic loudspeaker ION = ionic loudspeaker MGD = magnetodynamic loudspeaker MGS = magnetostriction loudspeaker MVC = moving conductor loudspeaker PNM = pneumatic loudspeaker PXE = piezoelectric loudspeaker 					
AAE006-00	6 01 simple	M8 non-quantitative	A55 e code		
mounting f	eatures	mtg feature			
Code of the fasten a cor	mounting fea	tures which are counterpart.	designed to		
35x15 35x7.5 75x25 BRC C20 C30 C40 C50 HOL INS SMD STD TAP	<pre>= width is 35 r = width is 35 r = width is 75 r = with bracket = width 20 mn = width is 30 r = width is 40 r = width is 50 r = through hole = inserted = surface mou = stud = tapped hole</pre>	nm, height is 15 nm, height is 7.9 nm, height is 25 n nm nm nm e inted	amm 5 mm 5 mm		

AAE007-005	01	M3	A58
	simple	non-quantitative code	e

terminal shape terminal shape

Code of the shape of the terminals of an electric, electronic or electromechanical component.

- BUS = bus
- CAP = end cap
- FLT = flat
- PIN = printed wiring pin
- SCR = screw
- SOL = solid-lead STD = stud
- STL = stranded-lead
- TAG = solder tag

AAE008-005	01	M8	A58
	simple	non-qua	ntitative code

terminal placement terminal place

Code indicating the placement of the terminals of an electric-electronic or electromechanical component.

AXIAL = axial CIRC = on circle DIL = dual in line GA = grid array QIL = quadruple in line RAD = radial SEND = single ended

SIL = single in line

AAE009-005	01	M3	A59
	simple	non-quantitative code	•

performance grade performance grd

IEC standard code identifying the performance grade of a fixed capacitor.

1 = long-life

2 = general purpose

IEC 60384-2 (1982)

REMARKS:

See IEC 60384-2 (1982) and IEC 60384-4 (1998) for requirements per test.

AAE010-005		02	M17	A59
	simple	string		

climatic category

IEC standard code indicating the climatic category to which a resistor or capacitor belongs.

climatic cat

IEC 60068-1 (8) (1988)

REMARKS:

The category is indicated by a series of three sets of digits separated by oblique strokes corresponding respectively to the temperatures, both cold and hot, and to the number of days of exposure to damp heat (steady state) they will withstand. (In the first set the digits denote the temperature

below zero in Cel, unless otherwise indicated.)

- -First set: Two digits denoting the minimum ambient temperature of operation (cold test).
- -Second Three digits denoting the maximum set: temperature of operation (dry heat test). Where the temperature requires the use of only two digits, they shall be prefixed by the figure '0' to make up the three digit group.

-Third set: Two digits denoting number of days of the damp heat steady state) test (Ca). Where the duration requires the use of only one digit, it shall be prefixed by the figure '0' to make up the two digit group.

AAE012-005	02	M35	A61
	simple	string	

international standard internat std

Reference to an international standard describing a component.

REMARKS: Examples of formats for reference to IEC publications:

- IEC 60147-1D (VI.1.5.1) (1978) = IEC publication
- IEC/TC47(CO)797(5.1) (1981)
- = Publ. of Central office - IEC/TC47(Sec)797(5.1) (1981)

= Publ of Secretariat

Examples of formats for reference to ISO publications:

- ISO9999 (1985) = ISO publication
- ISO/DP999 (1985) = Draft proposal
- ISO/DIS9999 (1985) = Draft Intern. standard

AAE013-005	01 simple	NR3 S3.3ES2 real measure V	E06	AAE019-005	01 N level miNol	IR33.3E Max m	S2 real measur	т03 е
voltage (dc)		@U_dc @U _{dc}		body length		l_body I _{body}		
The direct vol electronic or e variable.	tage (in V) electromecl	applied to an ele nanical compone	ectric, nt, as a	The value as length (in m) direction.	specified by of the body	[,] level (mi of a comp	NoMax) of th oonent in the	e x-
AAE014-005	02 simple	NR1 S4 integer measur Cel	H02 re	AAE020-005	01 level miNol	NR33.3 Max m	ES2 real measur	T03 e
ambient temp ambient free a	perature air tempera	@T_amb ture @T _{amb} @T _a		body height		h_body h _{body}		
The ambient f component, a	ree air tem s a variable	perature (in Cel) e.) of a	The value as height (in m) direction.	specified by of the body	r level (mi of a comp	NoMax) of th oonent in the	e z-
IEC 60068-1 ((1988)							
REMARKS: IEC 60068-1 (For a heat-dis	(1988) ssipating sp	pecimen in free a	ir	AAE021-005	01 level miNol	NR33.3 Max m	ES2 real measur	T03 e
conditions, the temperature of specimen that	e ambient t of the air at t the effect	emperature is th such distance fr of the dissipatio	e om the n is	body breadth	ı	b_body b _{body}		
negligible.				The value as breadth (in m direction.	specified by) of the body	y level (mi y of a con	NoMax) of th	e y-
AAE017-005	level nom	01 NR1 S4 integer measur	4 H02 Te					
		Cel		AAE022-005	01	NR33.3	ES2	Т03
reference ten	nperature	T_ref T _{ref}			ievei minoi	m	real measur	e
The reference to a compone	e ambient te nt.	emperature (in C	el) applied	outside diam	leter	d_out d _{out}		
NOTE T _{ref} may be us are specified a	sed when a at a commo	number of chara on ambient temp	acteristics erature.	The value as outside diame of circular cro	specified by eter (in m) o oss-section.	r level (mi f a compo	NoMax) of th onent with a b	e oody
AAE018-001	02 level nom	NR2 S3.3 real measure %	E09	AAE023-005	01 level miNol	NR33.3 Max m	ES2 real measur	T03 e
capacitance	lower toleı	rance (%) C _{lt(%)}	C_lt(%)	terminal diar	neter	d_term d _{term}		

The lower tolerance percentage (in %) of the rated capacitance of a fixed capacitor.

The value as specified by level (miNoMax) of the diameter (in m) of the terminals of an electric-electronic or electromechanical component.

AAE024-005	01	NR33.3ES2	Т03
	level nom	real measure	
		m	

terminal pitch

p_term P_{term}

The nominal pitch (in m) of the terminals of an electric, electronic or electromechanical component.

IEC 60050 (411) (1973)

AAE027-005	01 N	R33.3ES2	Т03
	level miNoMa	ax real	measure
	n	า	

mounted	height	h_mnt
mounting	height	h _{mnt}
seated he	eight	

The value as specified by level (miNoMax) of the mounted height of a component (in m), referred to as the seating plane.

REMARKS:

BSI: mounted height (seated height): The distance of the furthest part of the component above the reference plane measured in a direction perpendicular to that plane. BSI: seating plane (reference plane):

The surface plane of the circuit on which the component is mounted.

AAE028-005	02 simple	NR33.3ES2 real measure s	Т07
duration time interval		@dt @dt	

The time (in s) during which an input quantity (current, voltage, etc.) is applied to a component, as a variable.

AAE029-005	01 simple	NR33.3ES2 real measure Hz	F03
frequency		@f @f	

The frequency (in Hz) of a sinusoidal input quantity (current, power, voltage, etc.) applied to an electric, electronic or electromechanical component, as a variable.

AAE030-005		02	M8	A52
	simple	non-	quantita	tive code

E series E series

IEC code which identifies the preferred value series to which the resistance of a resistor or the capacitance of a capacitor belongs.

E12	= E12
E192	= E192
E24	= E24
E3	= E3
E48	= E48
E6	= E6
E96	= E96

IEC 60063 (Amd2) (1963)

REMARKS:

The E192 series is composed of rounded values of the theoretical numbers $10^{n}/192$ in which the exponent n is a whole positive or negative number. The E96 series is derived from the E192 series by omitting alternate terms.

The E48 series is derived from the E96 series by omitting alternate terms.

The E24 series is composed of rounded values of the theoretical numbers $10^{n}/24$ in which the exponent n is a whole positive or negative number.

AAE031-005	02 simple	M3 non-quantitative code	A55 Ə
electrode te	chnology	electrode techn	
Code identify electrodes of	ring the tech a fixed film	nology by which the capacitor are made.	
MFL = metal foil MLZ = metallized			
AAE033-005	02 simple	M3 non-quantitative code	A56 Ə
voltage application voltage appl			

Code of the voltage application(s) for which a fixed film capacitor is designed.

- AC = ac, designed essentially for alternating voltages
- DC = dc, designed essentially for direct voltages
- PL = pulse, for use with current or voltage pulses

AAE037-005 02

A 56

M 3

AAE034-005	02	M3	A56
	simple	non-qua	antitative code

circuit application (capacitor) circuit appl

Code of the circuit application(s) for which a fixed capacitor is designed.

= coupling
= decoupling
= delay

- DFL = deflection
- FLT = filtering RIS = radio-interference-suppression
- SMT = smoothing
- TC = temperature-compensating
- TIM = timing
- TUN = tuning

AAE035-005	01	М8	A56
	simple	non-quantitative code	e

temperature coefficient code \$a

IEC standard code of the temperature coefficient of the capacitance of a fixed class1 ceramic capacitor.

N1000	= -1000 *10**-6/K
N150	= -150 *10**-6/K
N1500	= -1500 *10**-6/K
N220	= -220 *10**-6/K
N2200	= -2200 *10**-6/K
N33	= -33 *10**-6/K
N330	= -330 *10**-6/K
N3300	= -3300 *10**-6/K
N470	= -470 *10**-6/K
N4700	= -4700 *10**-6/K
N5600	= -5600 *10**-6/K
N75	= -75 *10**-6/K
N750	= -750 *10**-6/K
NP0	= 0
P100	= +100 *10**-6/K

IEC 60384-8 (1988)

AAE036-005	01	МЗ	A56
	simple	non-quantitative code	;

safety class safety class

IEC standard code of the safety/voltage class of a fixed capacitor for radio interference suppression.

U	= shock danger on failure
	<=125 V mains voltage

- X1 = no shock danger on failure; >1,2 kV pulse
- X2 = no shock danger on failure; <=1,2 kV pulse

Y = shock danger on failure; 125-250 V mains voltage

AAE037-003	simple	string	7.00
EIA temperat code	ure charac	teristic	EIA TCh
EIA code of th class2 cerami	ne temperat c capacitor.	ure characteris	tic of a fixed
EIA RS-198-E	8 (1991)		
REMARKS: First (alphabe X = -55 degr Z = $+10$ degr Second (nume 2 = $+45$ degr 4 = $+65$ degr 5 = $+85$ degr 6 = $+105$ degr 7 = $+125$ degr 7 = $+125$ degr Third (alphabe A = $+/-1$ % B = $+/-1$,5% C = $+/-2$,2% D = $+/-3$,3% E = $+/-4$,7% F = $+/-7$,5% P = $+/-10$ % R = $+/-15$ % S = $+/-22$ % T = $+22/-33$ % U = $+22/-56$ % V = $+22/-82$ %	tic) charact ee C ee C ee C ee C ee C ee C ree C ree C etic) charac	er indicates T _a ter indicates T _a ter indicates ca	mb-min: amb-max: ap. change:
X7R corresponds to IEC subclass 2B4 Y5V corresponds to IEC subclass 2F4			
AAE038-005	02 simple	X3 non-quantitati	A57 ve code
dielectric cla	ss (cerami	c cap) ceram	diel cls

IEC standard code of the dielectric material class of a fixed ceramic capacitor (with regard to permittivity, losses and temperature stability).

CL1	= class1 ceramic capacitor
CL2	= class2 ceramic capacitor

AAE039-005	03	M8	A57
	simple	non-quantitative code	e

film dielectric material film diel mat

ISO standard code of plastics, used to identify the dielectric material of a fixed film capacitor.

PC = polycarbonate

- PETP = polyethylene-terephthalate
- PP = polypropylene
- PS = polystyrene

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AAE040-005	02	M8	A57
	simple	non-qua	antitative code

electrode material type electrode mat

Code of the type of electrode material of an electrolytic capacitor.

AI = aluminium NSAI = *non-solid aluminium SAI = *solid aluminium

Ta = tantalum

AAE041-005	02 level nom	NR14 integer measure h	Т07
- 1 16 126 -		- 1 16 126 -	

shelf life	shelf life
	shelf life

Duration of storage test (in h) at specified ambient temperature of a fixed electrolytic capacitor. After test and reconditioning the capacitor shall meet stated requirements for change in capacitance, loss angle, dc leakage current, and impedance.

AAE014-005 = ambient temperature

IEC 60384-1 (1999)

REMARKS:

This is a modification of the IEC Dry heat test, with extended duration.

AAE042-005	03	NR33.3ES2	E01
	level max	real measure	
		А	

$\label{eq:leakage} \begin{array}{l} \text{leakage current short-term} & \textbf{I_leak(st)} \\ \textbf{I}_{\text{leak}(st)} \end{array}$

The maximum leakage current (in A) of a fixed electrolytic capacitor, after the rated voltage has been applied for a specified duration at specified ambient temperature, determined according to IEC 60384-1 (1999).

AAE014-005 = ambient temperature AAE028-005 = duration

REMARKS:

For leakage current during continuous operation, see AAE043-005.

AAE043-005	02	NR33.3ES2	E01
	level max	real measure	
		А	

leakage current continuous I_leak(cont)

The maximum leakage current (in A) of a fixed electrolytic capacitor during continuous operation at the rated voltage at specified ambient temperature,

determined according to IEC 60384-1(4.9) (1984).

AAE014-005 = ambient temperature

REMARKS:

For leakage current after a given duration: see AAE042-005.

AAE044-005	01 level max	NR33.3ES2 real measure V	E06
rated voltage	e (dc)	U_Rdc U _{Rdc}	

The maximum direct voltage (in V) which may be applied continuously to a capacitor at any operating ambient temperature below the rated temperature.

AAE045-005	01 level max	NR33.3ES2 real measure V	E06
rated voltage	e (ac)	U_Rac	

ac voltage (ac) U_{Rac}

The maximum rms alternating voltage (in V), of mains frequency (50-60 Hz), which may be applied continuously to a film capacitor at any operating ambient temperature below the rated temperature.

NOTE

IEC has changed its definition from rms into peak value.

REMARKS:

For ac capacitors: rated voltage (ac). For dc capacitors: max. ac voltage.

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AAE046-005	01 level miNol	NR33.3ES2 Max real mea F	E09 sure	AAE050-005	02 level max	NR33.3ES2 real measure Hz	F03
capacitance		c C		resonance fro lowest resona fundamental r	equency nce frequer esonance fr	f_rsn ncy f _{rsn} requency	
The value as capacitance (i frequency and	specified by in F) of a fix d at reference	level (miNoMax) o ed capacitor at spe ce conditions.	f the ecified	The maximum frequency of a	value of th a moving co ed mounting	e lowest resonance nductor loudspeaker o of loudspeaker.	(in
AAE029-005 = AAE995-005 =	= frequency = reference	conditions		AAE342-005 :	= mounting	of loudspeaker	
AAE047-001	02 level nom	NR2 S3.3 real measure %	E09	AAE051-005	01 level nom	NR33.3ES2 real measure m	Т03
capacitance	upper toler	ance (%) C_ι C _{ut(%)}	ıt(%)	centre pole d core diameter	liameter	d_pole	
The upper tole capacitance o	erance perc f a fixed ca	entage (in %) of the pacitor.	e rated	The rounded pole of a mov	nominal diai ing conduct	meter (in m) of the ce or loudspeaker.	entre
AAE048-005	03 level max	NR23.3 real measure W	E49	AAE053-005	01 simple	M8 non-quantitative cod	A57
maximum no power handlin rated power	ise power Ig capacity	P_n P _n		magnet mate magnet	rial	magnet material	
The maximum	noise powe	er (in W) of a movir	ig ormula:	Code of the material type of the magnet of a moving conductor loudspeaker.			
maximum nois impedance.	se voltage s	quared over the rat	ed	CER = cerar RES = rare e STA = steel	nic earth alloy		
AAE049-005	02 level nom	NR14 integer measure Ω	E33	AAE054-005	01 level nom	NR33.3ES2 real measure	Т03
rated impeda	nce	R R		baffle hole le	ngth	I_bfl	
The nominal s moving condu	substituted of contracts of the second se	lc resistance (in oh eaker.	ms) of a	Recommende hole of a mov	d nominal le	ength (in m) of the ba or loudspeaker.	ffle
NOTE Used when de the source.	efining the a	vailable electric po	wer of	IEC 60268-14	(1980)		

AAE055-00	5 01 simple	M8 non-quantitative code	A56
frequency a	application	frequency appl	
Code indica recommend	ting the applic ed for a movir	cation frequency range ng conductor loudspeak	ker.
FULLR SQUAW TWEET WOOF	= full range = squawker (ı = tweeter (hi = woofer (lo	medium range) gh range) w range)	
AAE056-00	5 01 level nom	NR33.3ES2 real measure m	Т03

baffle hole breadth b_bfl b_{bfl}

Recommended nominal breadth (in m) of the baffle hole of a moving conductor loudspeaker.

IEC 60268-14 (1980)

AAE060-006	01	X3	A52
	simple	non-quantitative code	9

category EM componentcategory EM

Code of the category to which an electromechanical component belongs.

CON = connector

CONPART = connector part FUS = fuse LSP = loudspeaker

- MIC = microphone
- MOT = motor
- REL = relay SWI = switch

AAE061-005	01	M3	A58
S	simple	non-quantitative code	•

shape of flange

flange shape

Code of the outer shape of the flange of a moving conductor loudspeaker.

- CRC = circular
- CRE = circular with ears
- ELE = elliptical with ears ELT = elliptical
- OCT = octagonal
- RCT = rectangular
- SQR = square

IEC 60268-14 (1980)

AAE063-005	04	NR33.3ES2	E33
	level min	real measure Ω	

insulation resistance R ins Rins

The minimum insulation resistance (in ohms) between terminals of a fixed capacitor, determined according to IEC 60384-1(4.5) (1999) at reference conditions.

AAE995-005 = reference conditions

REMARKS:

1 The insulation resistance is measured after a voltage has been applied for 1 min +/- 5 s. The relationship between this voltage and the rated voltage (dc) is prescribed in IEC 60384-1 (1999).

Voltage rating of	Measuring voltage
capacitor	
U _R or U _C < 10 V	U _R or U _C +/-10%
10 V <= U _R or U _C < 100 V	10 +/- 1 V
100 V <= U _R or U _C < 500 V	100 +/-15 V
500 V <= U _R or U _C	500 +/-50 V

2 AAE063-005 is prescribed by IEC for specific capacitor types. See also AAE069-005

AAE064-005	02	NR33.3ES2	E44
	level max	real measure	
		Ω	

ESR equivalent series resistance ESR

The maximum equivalent series resistance (in ohms) of an electrolytic capacitor at specified frequency and at the reference conditions.

NOTE

The ESR corresponds to the real part of the impedance.

AAE029-005 = frequencyAAE995-005 = reference conditions

AAE065-005	03	NR33.3ES2	E44
	level nom	real measure	
		4	

tangent of loss angle	tan\$d
dissipation factor	tan δ

The tangent of the loss angle of a capacitor at specified frequency and at reference conditions.

NOTE

The tangent of the loss angle is equal to the equivalent series resistance divided by the capacitive reactance.

AAE029-005 = frequency AAE995-005 = reference conditions

REMARKS:

(IEC 60418-3 (1976)): The rotor should be set at minimum and maximum positions for the tan delta test on variable capacitors. IEC requires the voltage to be specified.

N.B. Reciprocal of tan delta is quality factor Q.

AAE066-005	01	NR33.3ES2	F02
	level min	real measure	
		S	

time constant (of capacitor) RC RC product RC

The minimum product (in s) of the insulation resistance between terminals and the nominal capacitance of a fixed capacitor.

REMARKS:

According to IEC, this DE-type is used for the following groups of capacitors:

polycarbonate film	> 0.33 uF
polyethylene-terephthalate	> 0.33 uF
polypropylene film	> 0.33 uF
polypropylene film/foil	> 0.1 uF
polystyrene	> 0.1 uF
mica	> 0.01 uF
ceramic class 1	> 10 nF
ceramic class 2	> 25 nF
radio interference	> 0.33 uF
suppressors	

For lower values use Rins (AAE063-005)

 AAE067-005
 01
 NR3 S..3.3ES2
 H03

 level miNoMax
 real measure

 K⁻¹

temperature coefficient (cap) TC

The value as specified by level (miNoMax) of the temperature coefficient (in K^{-1}), relative to the nominal capacitance, of a fixed capacitor.

IEC 60384-1 (1999)

REMARKS:

The temperature coefficient of variable capacitors is measured at rotor settings and temperatures as given in IEC 60418-1 (1974).

AAE068-005	01 I	NR33.3ES2	E09
	level miNoM	ax real F	measure

maximum capacitance C_max C_{max}

The value as specified by level (miNoMax) of the maximum capacitance (in F) obtainable by moving the actuating device of a variable capacitor.

AAE069-005	01	NR3.	.3.3ES2	E09
	level miNol	Max	real me	asure
		E		

minimum capacitance C_min

The value as specified by level (miNoMax) of the minimum capacitance (in F) obtainable by moving the actuating device of a variable capacitor.

AAE070-005	01	МЗ	A56
	simple	non-quantitative code	Э

adjustability class adjustabl class

Code of the adjustability class of a variable capacitor or potentiometer.

CTL = control (potentiometer)

- PRE = preset
- TRM = trimmer
- TUN = tuning (capacitor)

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AAE071-005		02	NR2 S3.3	E09
	level nom	real	measure	
		%		

capacitance tolerance C_tol

C_{tol}

The nominal tolerance on capacitance (in %) identifying a capacitor.

REMARKS:

Used only in cases of equal positive and negative tolerance values.

AAE072-005	01	NR3.	.3.3ES2	Т03
	level	miNoMax	real	measure
		m		
terminal leng	gth	l_ter	m	
		Iterm		

The value as specified by level (miNoMax) of the length (in m) of the terminals of an electric-electronic or electromechanical component extending below the seating plane.

AAE073-005	02 level nom	NR14 integer measure h	T07
endurance		endurance endurance	
The nominal duration of the endurance test (in h) according to IEC 60384-4 (1998) at the rated voltage (dc) and at specified ambient temperature, which a fixed electrolytic capacitor shall withstand.			

AAE014-005 = ambient temperature

AAE074-005	03	M8	A56
	simple	non-quantitative code	e

IC application field IC appl field

Code identifying the equipment in which an application oriented IC is used.

AO	= application field
ARI	= **traffic warning system
AUD	= *audio
AUT	= *automotive
CAM	= **camera
CAR	= **car radio
CD	= **compact disc
CLWTCH	= *clocks and watches
CREC	= **camera recorder
DCOM	= **data communications
DIAL	= **dialler
DIS	= **display
E/W	= ***east/west correction
GAM	= **games
GP	= general purpose
HAID	= **hearing aid
HOR	= ****horizontal
мов	= ***mobile telephony
MTR	= ***multi-tone ringer
PASY	= **paging system
RC	= **radio recorder
REC	= **recorder
REM	= **remote control
RR	= **radio receiver
SPS	= ***speech synthesizer
SYNC	= ***synchronization
тсом	= *telecommunications
TEL	= **telephony
TV	= **television receiver
ТХТ	= ***teletext
VCR	= **recorder
V-DEFL	= ***vertical deflection
VERT	= ****vertical
VID	= *video

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analog function

AAE076-005	02	МЗ	A57
	simple	string	

dielectric subclass 2 diel subclass2

IEC standard code of the subclass of a fixed class2 ceramic capacitor, as determined by the temperature characteristic of capacitance.

IEC 60384-9 (1988)

REMARKS:

First (numeric) character is always 2 (see AAE038-005)

Second (alphabetic) character indicates maximum capacitance change in per cent with respect to C_R at 20 deg C:

	U _{dc} = 0	$U_{dc} = U_{R(dc)}$
В	+/-10	+10/-15
С	+/-20	+20/-30
D	+20/-30	+20/-40
Е	+20/-56	+20/-70
F	+30/-80	+30/-90
R	+/-15	+15/-40
Х	+/-15	+15/-25

Third (numeric) character indicates temperature range:

1	-55/+125 deg C
2	-55/+ 85 deg C
3	-40/+ 85 deg C
4	-25/+ 85 deg C
6	+10/+ 85 deg C

AAE077-005	01	X3	A56
	simple	non-quantitative code	Э

signal type

Code identifying a function on an IC according to the type of signal being treated.

signal type

AD = AD	(analogue/digital)
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- ANA = analogue
- DIG = digital
- PER = periodic/dc

AAE084-005 03 M..8 A56 simple non-quantitative code

analogue function

Code identifying an analogue signal function of an IC.

AMP	= amplifier
BDP	= *band pass
COMP	= comparator
DCC	= *dc controlled
DEC	= decoder
DEM	= demodulator
DOLBY	= **Dolby
ENC	= encoder
FIL	= filter
FS	= *frequency synthesizer
MIX	= *mixer
MOD	= modulator
OPAMP	= *operational
PREAMP	= *preamplifier
PRESC	= *prescaler
RED	= *noise reduction
SUP	= *interference suppression
TUN	= tuner

AAE085-005	01	X3	A56
	simple	non-quantitative code	e

digital function dig function

Code identifying a digital function of an IC.

- CSI = CSI (combinatorial sequential interface)
- MUC = microcontroller
- MUP = microprocessor
- PLD = PLD (programmable logic device)
- STO = storage

AAE086-005	02	NR2 S3.3	E06
	level minMa	x re	al measure
		V	

supply voltage limitV_stdc supply voltageV

V_sup

The value as specified by level (minMax) of the limiting direct supply voltage (in V) applied to an IC.

REMARKS:

Commonly known supply voltage symbols: V_{CC} for TTL, NMOS and HCMOS circuits V_{DD} for CMOS circuits V_P for analogue circuits V_{EE} for ECL circuits

AAE092-005 01 NR2 S..3.3 E06 real measure level minTypMax v

HIGH-state output voltage V OH HIGH-level output voltageV_{OH}

output voltage HIGH

The value as specified by level (minTypMax) of the HIGH-state dc output voltage (in V) of a digital function of an IC, at specified supply voltage, output current, logic input voltages and in a temperature range between specified temperatures (T_1 and T_2).

AAE102-005 = supply voltage AAE226-005 = output current AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

REMARKS:

It is required that the value of the logic input voltages falls within either the V_{IH} or the V_{IL} range.

AAE093-005	01	01 NR2 S3.3		E06
	leve	l minTypMax	real measu	Jre
		17		

HIGH-state output voltage ref V_OHref

HIGH-level output voltageV_{OHref} output voltage HIGH

The value as specified by level (minTypMax) of the guaranteed HIGH-state dc output voltage (in V) of a digital function of an IC, at reference input voltages, specified supply voltage and output current, and in a temperature range between specified temperatures $(T_1 \text{ and } T_2).$

AAE102-005 = supply voltage AAE226-005 = output current AAE958-005 = temperature T_1 AAE959-005 = temperature T 2

IEC 60748-2 (1997)

REMARKS:

It is required that the value of the reference input voltages is either zero (GND/V_{SS}), or equal to the supply voltage (V_{CC}/V_{DD}).

AAE094-005 01 NR2 S..3.3 E06 level minTypMax real measure

LOW-state output voltage ref V_OLref LOW-level output voltage Voltef output voltage LOW

The value as specified by level (minTypMax) of the guaranteed LOW-state dc output voltage (in V) of a digital function of an IC, at reference input voltages, specified supply voltage and output current, and in a temperature range between specified temperatures $(T_1 \text{ and } T_2).$

AAE102-005 = supply voltage AAE226-005 = output current AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

REMARKS:

It is required that the value of the reference input voltages is either zero (GND/V_{SS}), or equal to the supply voltage (V_{CC}/V_{DD}).

AAE097-005	01 NR2 S	53.3 E	06
	level minTypMax	real measure	

V OL LOW-state output voltage LOW-level output voltage VoL

The value as specified by level (minTypMax) of the LOW-state dc output voltage (in V) of a digital function of an IC, at specified supply voltage, output current, logic input voltages and in a temperature range between specified temperatures (T_1 and T_2).

AAE102-005 = supply voltage AAE226-005 = output current AAE958-005 = temperature T 1 AAE959-005 = temperature T 2

IEC 60748-2 (1997)

REMARKS: It is required that the value of the logic input voltages falls within either the V_{IH} or the V_{IL} range.

AAE102-005	01 simple	NR2 S3.3 real measure V	E06
supply voltaged of the	ge :age	@V_sup @V _{sup}	
The direct supply voltage a variable.		(in V) applied to an IC	;, as
REMARKS:			

Commonly known supply voltage symbols: V_{CC} for TTL, NMOS and HCMOS circuits V_{DD} for CMOS circuits V_P for analogue circuits V_{EE} for ECL circuits

AAE106-005	03 level nom	NR14 integer measure 1	Q56
number of fu	nctions	N_func	

 N_{func}

Number of identical functions of a multiple function component.

REMARKS:

Such as identical functions on one IC.

AAE111-005	01 simple	M3 non-quantitative code	A53
packing type		packing type	

Code of the packing type at specified packing level for products.

AMM =	ammopack
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- BAG = bag
- BLI = blister
- BOX = box CAS = cassette
- CON = container
- PAL = pallet
- RAL = rail
- RL = reel
- TRA = tray

REMARKS:

This data element must be used in combination with AAF270-005 (packing level).

AAE112-005	02	M3	A53
	simple	non-quantitative code)

taping taping

Code of taping for automatic handling of products.

- AX = axial (tape for axial leads)
- BL = blister (tape for SMD)
- CB = cardboard (tape for SMD)
- RD = unidirectional (tape for radial leads)

AAE113-005		01	NR14 H03
	level max	intege K⁻¹	er measure

temperature coefficient \$a

The maximum reversible variation of the resistance (in K^{-1}) of a fixed linear resistor or a potentiometer.

α

IEC 60115-1 (1999)

AAE114-007	01	X8	A57
	simple	non-quantitative code	Э

linearity of a fixed resistor linearity

Code of linearity class to which a fixed resistor belongs.

LIN = linear NLN = non-linear

AAE115-005	01	NR14	H02
	level max	integer measure	
		Cel	

maximum surface temperatureT_surfmaximum body temperatureTsurfhot spot temperature

The maximum surface temperature (in Cel) of a fixed resistor.

IEC 60115-1 (1999)

AAE116-005	02	M8	A57
	simple	non-quantitative code	Э

resistive material resistive mat resistance element material

Code of the resistive material of a fixed linear or a variable resistor.

REMARKS:

For potentiometers, the term cermet is used instead of metal glaze. Cermet is an acronym for ceramic and metal. With

this type, the resistive element is a metal glaze compound deposited on a ceramic substrate.

AAE118-005 01 level max	NR14 E06 integer measure V	AAE125-005 simple	01 NR23.3 E01 real measure A
limiting element voltag limiting voltage (dc)	e (dc) U_max(dc) U _{max(dc)}	current (pulse)	@l_pul @l _{pul}
The maximum limiting do applied to a resistor.	voltage (in V) that may be	The peak value of a through an electric, o component, as a var	pulse current (in A) passed electronic or electromechanical iable.
AAE119-005 01 level miNc	NR33.3ES2 E33 Max real measure Ω	AAE126-005 02 simple	X3 A56 non-quantitative code
resistance	R	thermistor type	TDR type
	R R _{ac}	Code of the sign of t belonging to a therm	he temperature coefficient istor.
The value as specified b resistance (in ohms) of a variable resistor.	y level (miNoMax) of the fixed linear resistor or	NTC = negative ter PTC = positive tem	nperature coefficient perature coefficient
IEC 60115-1 (1999)			
REMARKS: The symbol R_{ac} is used f	or potentiometers. The	AAE127-005 01 level r	NR33.3ES2 E33 niNoMax real measure Ω
of potentiometers and be two-terminal resistors.	etween the end positions of	resistance at 25 Ce	I R_25 R ₂₅
		The value as specifi	ed by level (miNoMax) of the
AAE122-005 01 simple	X3 A56 non-quantitative code	resistance of a thern of 25 Cel.	nistor at an ambient temperature
AAE122-005 01 simple resistance dependency	X3 A56 non-quantitative code res dependency	resistance of a thern of 25 Cel.	nistor at an ambient temperature
AAE122-005 01 simple resistance dependency Code of the physical dep linear fixed resistor below	X3 A56 non-quantitative code res dependency pendency to which a non- ngs.	resistance of a thern of 25 Cel. AAE130-005 01 level r	nistor at an ambient temperature NR23.3 H07 nom real measure W/K
AAE122-005 01 simple resistance dependency Code of the physical dep linear fixed resistor below LDR = light dependent TDR = thermistor (temp VDR = varistor (voltage	X3 A56 non-quantitative code res dependency rendency to which a non- ngs. resistor perature)	resistance of a thern of 25 Cel. AAE130-005 01 level r dissipation factor	nistor at an ambient temperature NR23.3 H07 real measure W/K \$D Δ
AAE122-005 01 simple resistance dependency Code of the physical dep linear fixed resistor below LDR = light dependent TDR = thermistor (temp VDR = varistor (voltage	X3 A56 non-quantitative code res dependency mendency to which a non- ngs. resistor perature)) NR33.3ES2 E33	resistance of a thern of 25 Cel. AAE130-005 01 level r dissipation factor The ratio of the power resultant body temper thermistor at a speci	NR23.3H07nomreal measure W/K\$D Δer dissipation change to the erature change (in W/K) of a fied ambient temperature.
AAE122-005 01 simple resistance dependency Code of the physical dep linear fixed resistor below LDR = light dependent TDR = thermistor (temp VDR = varistor (voltage AAE123-005 01 level min	X3 A56 non-quantitative code res dependency wendency to which a non- ngs. resistor perature)) NR33.3ES2 E33 real measure Ω	resistance of a thern of 25 Cel. AAE130-005 01 level r dissipation factor The ratio of the power resultant body temper thermistor at a speci AAE014-005 = ambie	NR23.3H07nomreal measure W/K\$D Δer dissipation change to the erature change (in W/K) of a fied ambient temperature.ent temperature
AAE122-005 01 simple resistance dependency Code of the physical dep linear fixed resistor below LDR = light dependent TDR = thermistor (temp VDR = varistor (voltage AAE123-005 01 level min dark resistance	X3 A56 non-quantitative code res dependency wendency to which a non- ngs. resistor werature)) NR33.3ES2 E33 real measure Ω R_D R_D	AAE130-005 01 level r dissipation factor The ratio of the power resultant body temper thermistor at a speci AAE014-005 = ambier IEC 60539-1 (2002)	NR23.3H07nomreal measureW/K\$DΔer dissipation change to theerature change (in W/K) of afied ambient temperature.ent temperature
AAE122-005 01 simple resistance dependency Code of the physical dep linear fixed resistor below LDR = light dependent TDR = thermistor (temp VDR = varistor (voltage AAE123-005 01 level min dark resistance The minimum value of th of a light dependent resist	X3 A56 non-quantitative code res dependency wendency to which a non- ngs. resistor resistor perature)) NR33.3ES2 E33 real measure Ω R_D R_D Ro e dark resistance (in ohms) stor.	resistance of a thern of 25 Cel. AAE130-005 01 level r dissipation factor The ratio of the poweresultant body temper thermistor at a speci AAE014-005 = ambie IEC 60539-1 (2002)	histor at an ambient temperature NR23.3 H07 real measure W/K D Δ er dissipation change to the erature change (in W/K) of a fied ambient temperature. ent temperature
AAE122-005 01 simple resistance dependency Code of the physical dep linear fixed resistor below LDR = light dependent TDR = thermistor (temp VDR = varistor (voltage AAE123-005 01 level min dark resistance The minimum value of th of a light dependent resist AAE124-005 01 level minM	X3A56non-quantitative coderes dependencywendency to which a non- ngs.resistorresistorwendencywendency to which a non- ngs.resistorwendency to which a non- ngs.resistorwendency to which a non- ngs.resistorwendency to which a non- ngs.resistorwendency to which a non- ngs.wendency to which a non- ngs.resistorwendency to which a non- ngs.wendency to which a non- ngs.wendency to which a non- negativeNR33.3ES2E33 laxnareal measure Ω	resistance of a thern of 25 Cel. AAE130-005 01 level r dissipation factor The ratio of the power resultant body temper thermistor at a speci AAE014-005 = ambier IEC 60539-1 (2002)	NR23.3 H07 nom real measure W/K \$D Δ A er dissipation change to the erature change (in W/K) of a fied ambient temperature. ent temperature

The value as specified by level (minMax) of the light resistance (in ohms) of a light dependent resistor.

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thermal time constant is integer measure for a thermistor will stay in the low resistance region, at specified ambient temperature. non-trip current in it into constant in a so it is a thermistor will stay in the low resistance region, at specified ambient temperature. REMARKS: IEC 60539-1 (2002) The maximum rms ac current in A) at which a PTC thermistor will stay in the low resistance region, at specified ambient temperature. AAE014-005 = ambient temperature. AAE132-005 02 NR1.4 H01 initial and final temperature when subjected to a step function change in temperature under zeropower conditions. NAE133-005 01 NR1.4 H02 AAE132-005 02 NR1.4 H01 Ievel nom integer measure for the resistance value of a PTC thermistor is twice the Rem. value. AAE139-005 01 NR1.4 H02 AAE132-005 02 NR1.4 H01 Ievel nom integer measure for the resistance value of a PTC thermistor is twice the Rem. value. AAE139-005 01 NR1.4 AAE139-005 01 NR1.4 AE139-005 01 NR3.3.3E52 M15 IEC 60539-1 C C H15 MAE14005 01 M.8 A52 AAE132-005 01 NR3.3.3E52 F01 Immeasure JK AE110-005 01 M.8 A52 No 31-4 (1992) MAE136-005 01 NR5.3.3E52 F01 Immeasure JK	AAE131-005	01 level nom	NR23.3 real measure s	F02	AAE137-005	01 level max	NR33.3ES2 real measure A	E01
The nominal thermal time constant (in s) of a thermistor. REMARKS: IEC 60539-1 (2002) The time required for the temperature of a thermistor to change by 63.2% of the difference between its initial and final temperatures when subjected to a step function change in temperature under zero-power conditions. AAE132-005 02 NR1.4 H01 level miNoMax integer measure K thermal sensitivity index B25/85 B_25/85 B_25/85 value B_{28/85} The value as specified by level (miNoMax) of the mean temperature sensitivity index B25/85 B_25/85 B_25/85 value B_{28/85} The value as specified by level (miNoMax) of the mean temperature sensitivity index (in K) of an NTC thermistor between 25 and 85 Cel. IEC 60539-1 C C H The nominal temperature (3 or more terminals) identifying a variable resistor. AAE135-005 02 NR3.3.3ES2 H15 Ievel nom real measure J/K heat capacity C C H The nominal heat capacity (in J/K) of a PTC resistor or pizzoelectic device. ISO 31-4 (1992) AAE136-005 01 NR3.3.3ES2 E01 RAE136-005 01 NR3.3.3ES2 E	thermal time	constant	\$t T T _{th}		non-trip curr	ent	l_nt I _{nt}	
REMARKS: AAE014-005 = ambient temperature IEC 60539-1 (2002) NR1.4 (100) AAE132-005 02 NR1.4 (100) Ievel millial and final temperatures when subjected to a step function change in temperature under zero-power conditions. AAE132-005 02 NR1.4 (100) AAE132-005 02 NR1.4 (100) H01 Isevel mom Integer measure Cel AAE132-005 02 NR1.4 (100) H01 Isevel mom Integer measure Cel AAE132-005 02 NR1.4 (100) H01 Isevel mom Integer measure Cel B_25/85 value B_25/85 B_25/85 Simple non-quantitative code The value as specified by level (miNoMax) of the measure preature sensitivity index (in K) of an NTC thermistor between 25 and 85 Cel. Code of the number of terminals identifying a variable resistor. IEC 60539-1 Code of the number of terminals identifying a variable resistor. AAE141-005 01 M.8 (IEC 000) AAE136-005 01 NR33.3ES2 H15 POT = potentiometer (a or more terminals) IEV of mom real measure A A A AAE141-005 01 M.8 (IEC 000) AAE136-005 01 NR33.3ES2 E01 Is NB (IEC 000) AEE141-005 01 M.8 (IEC 000) Ievel mom real measure A A	The nominal t thermistor.	hermal time	constant (in s) of a		The maximum thermistor will specified amb	n rms ac cur I stay in the pient temper	rent (in A) at which a low resistance regio ature.	PTC n, at
The time required to the temperature of a thermistor to change by 63.2% of the difference between its initial and final temperatures when subjected to a step function change in temperature under zero- power conditions. AAE132-005 02 NR14 H01 level miNoMax integer measure K thermal sensitivity index B25/85 B_25/85 g_25/85 value B22/85 The value as specified by level (miNoMax) of the mean temperature sensitivity index (in K) of an NTC thermistor between 25 and 85 Cel. IEC 60539-1 AAE135-005 02 NR33.3ES2 H15 level nom real measure J/K heat capacity C C H The nominal heat capacity (in J/K) of a PTC resistor or piezoelectric device. ISO 31-4 (1992) AAE136-005 01 NR33.3ES2 E01 level min real measure A AAE136-005	REMARKS: IEC 60539-1 ((2002)			AAE014-005 :	= ambient te	emperature	
AAE132-005 02 NR1.4 H01 level miNoMax integer measure Switch temperature T_sw thermal sensitivity index B25/85 B_25/85 The value as specified by level (miNoMax) of the mean temperature sensitivity index (in K) of an NTC thermistor between 25 and 85 Cel. AAE139-005 01 X.3 A52 IEC 60539-1 Code of the number of terminals identifying a variable resistor. AAE139-005 02 NR3.3.3ES2 H15 IEC 60539-1 Code of the number of terminals identifying a variable resistor. POT = potentiometer (3 or more terminals) TT = two-terminal value code H POT = potentiometer (3 or more terminals) TT = two-terminal variable resistor. AAE136-005 01 NR3.3.3ES2 E01 EC code of the resistance law (IEC) resistance law (IEC) ISO 31-4 (1992) AAE136-005 01 NR3.3.3ES2 E01 Ievel min real measure AAE136-005 01 NR3.3.3ES2 E01 Ievel min real measure REMARKS: The minimum rms ac current (in A) that will trip a PTC thermistor for mole woresidance region, at specified ambient temperature. REMARKS: The relationship of the measured resistance value between terminations a and b or of the couput ratio U _{av} /U _{av} to the mechanical position of the moving conta	The time required to change by initial and fination step function power condition	fired for the 63,2 % of th al temperatu change in te ons.	temperature of a thern le difference between i res when subjected to emperature under zero	nistor its a -	AAE138-005	01 level nom	NR14 integer measure Cel	H02
AAE132-005 02 NR1.4 Horized and the set of the se				1104	switching ter switch temper	nperature ature	T_sw T _{sw}	
thermal sensitivity index B25/85 B_25/85 B_25/85 value B ₂₅ /85 The value as specified by level (miNoMax) of the mean temperature sensitivity index (in K) of an NTC thermistor between 25 and 85 Cel. IEC 60539-1 AAE135-005 02 NR3.3.3ES2 H15 level nom real measure JK heat capacity C C H The nominal heat capacity (in J/K) of a PTC resistor or piezoelectric device. ISO 31-4 (1992) AAE136-005 01 NR3.3.3ES2 E01 level min real measure A AAE136-005 01 NR3.3.3ES2 E01 level min real measure A trip current L t l The minimum rms ac current (in A) that will trip a PTC thermistor from the low resistance region to the high resistance region, at specified ambient temperature. AAE014-005 = ambient temperature	AAE132-005	level miNol	NR14 Max integer measur K	HU1 e	The nominal t conditions, at thermistor is t	emperature which the re wice the R _m	(in Cel), under zero esistance value of a ∣ _{iin} value.	power PTC
The value as specified by level (miNoMax) of the mean temperature sensitivity index (in K) of an NTC thermistor between 25 and 85 Cel. AAE139-005 01 X3 A52 simple non-quantitative code number of terminals identifying a variable resistor. IEC 60539-1 C NR33.3ES2 H15 level nom real measure J/K POT = potentiometer (3 or more terminals) TT = two-terminal variable resistor heat capacity C C C C C C C C C H M8 A52 Simple non-quantitative code 1SO 31-4 (1992) C C C C C C C C C C C C C C C C C C C	thermal sens B_25/85 value	itivity inde: e	x B25/85 B_25/8 B ₂₅ /85	5		•	<i></i>	
thermistor between 25 and 85 Cel. IEC 60539-1 IEC 60539-1 AAE135-005 02 level nom RR33.3ES2 H15 level nom RR33.3ES2 H15 real measure J/K heat capacity C C C H The nominal heat capacity (in J/K) of a PTC resistor or piezoelectric device. ISO 31-4 (1992) AAE136-005 01 NR33.3ES2 E01 level min real measure A AAE136-005 01 NR33.3ES2 E01 level min real measure A The minimum rms ac current (in A) that will trip a PTC thermistor from the low resistance region to the high resistance region, at specified ambient temperature. AAE014-005 = ambient temperature	The value as mean tempera	specified by ature sensiti	r level (miNoMax) of th vity index (in K) of an	e NTC	AAE139-005	01 simple	X3 non-quantitative cod	A52 le
IEC 60539-1 Code of the number of terminals identifying a variable resistor. AAE135-005 02 NR33.3ES2 H15 level nom real measure J/K POT = potentiometer (3 or more terminals) TT = two-terminal variable resistor heat capacity C AAE141-005 01 M8 A52 The nominal heat capacity (in J/K) of a PTC resistor or piezoelectric device. resistance law (IEC) resistance law IEC code of the resistance law ISO 31-4 (1992) Iaw-A = linear law law-B = logarithmic law law-C = inverse logarithmic law law-C = inverse logarithmic law Iaw-C = inverse logarithmic law AAE136-005 01 NR33.3ES2 E01 REMARKS: The relationship of the measure A The relationship of the measured resistance value between terminations a and b or of the output ratio Uab/Uac to the mechanical position of the moving contact. REMARKS: The minimum rms ac current (in A) that will trip a PTC thermistor from the low resistance region to the high resistance region, at specified ambient temperature. AAE014-005 = ambient temperature AAE014-005 = ambient temperature	thermistor bet	ween 25 an	d 85 Cel.		number of te	rminals	number of term	
AAE135-005 02 NR33.3ES2 H15 POT = potentiometer (3 or more terminals) heat capacity C T = two-terminal variable resistor The nominal heat capacity (in J/K) of a PTC resistor or piezoelectric device. C AAE141-005 01 M8 A52 ISO 31-4 (1992) Iso 31-4 (1992) Iso 31-4 (1992) Iso 201 Iso 201 <td>IEC 60539-1</td> <td></td> <td></td> <td></td> <td>Code of the n variable resis</td> <td>umber of tei tor.</td> <td>rminals identifying a</td> <td></td>	IEC 60539-1				Code of the n variable resis	umber of tei tor.	rminals identifying a	
heat capacity C AAE141-005 01 M8 A52 Simple non-quantitative code resistance law resistance resis	AAE135-005	02 level nom	NR33.3ES2 real measure J/K	H15	POT = poter TT = 1	ntiometer (3 two-termina	or more terminals) I variable resistor	
The nominal heat capacity (in J/K) of a PTC resistor or piezoelectric device. ISO 31-4 (1992) AAE136-005 01 NR33.3ES2 E01 level min real measure A Trip current l_t The minimum rms ac current (in A) that will trip a PTC thermistor from the low resistance region to the high resistance region, at specified ambient temperature. AAE014-005 = ambient temperature	heat capacity	/	с С Н		AAE141-005	01 simple	M8 non-quantitative cod	A52 le
or piezoelectric device. ISO 31-4 (1992) AAE136-005 01 NR33.3ES2 E01 level min real measure A trip current l_t The minimum rms ac current (in A) that will trip a PTC thermistor from the low resistance region to the high resistance region, at specified ambient temperature. AAE014-005 = ambient temperature IEC code of the resistance law of a potentiometer. IBW-A = linear law law-B = logarithmic law IREMARKS: The relationship of the measured resistance value between terminations a and b or of the output ratio U _{ab} /U _{ac} to the mechanical position of the moving contact. IEC code of the resistance law of a potentiometer. IBW-A = linear law IBW-B = logarithmic law REMARKS: The relationship of the measured resistance value between terminations a and b or of the output ratio U _{ab} /U _{ac} to the mechanical position of the moving contact.	The nominal h	neat capacit	v (in J/K) of a PTC res	istor	resistance la	w (IEC)	resistance law	
ISO 31-4 (1992) AAE136-005 01 NR33.3ES2 E01 level min Rameasure A trip current I_t The minimum rms ac current (in A) that will trip a PTC thermistor from the low resistance region to the high resistance region, at specified ambient temperature. AAE014-005 = ambient temperature	or piezoelectr	ic device.	,		IEC code of the	ne resistanc	e law of a potentiom	eter.
AAE136-005 01 NR33.3ES2 E01 level min real measure A I_t trip current I_t It It The minimum rms ac current (in A) that will trip a PTC thermistor from the low resistance region to the high resistance region, at specified ambient temperature. AAE014-005 = ambient temperature	ISO 31-4 (199	92)			law-A = linear law-B = logar law-C = inver	r law ithmic law se logarithm	nic law	
AREMARKS: The relationship of the measured resistance value between terminations a and b or of the output ratio U_{ab}/U_{ac} to the mechanical position of the moving contact.The minimum rms ac current (in A) that will trip a PTC thermistor from the low resistance region to the high resistance region, at specified ambient temperature.REMARKS: The relationship of the measured resistance value between terminations a and b or of the output ratio U_{ab}/U_{ac} to the mechanical position of the moving contact.AAE014-005 = ambient temperatureAAE014-005 = ambient temperature	AAE136-005	01 level min	NR33.3ES2 real measure	E01		oo logulliin		
trip currentI_tbetween terminations a and b or of the output ratio I_t between terminations a and b or of the output ratio I_t U_{ab}/U_{ac} to the mechanical position of the moving contact.The minimum rms ac current (in A) that will trip a PTC thermistor from the low resistance region to the high resistance region, at specified ambient temperature.between terminations a and b or of the output ratio U_{ab}/U_{ac} to the mechanical position of the moving contact.AAE014-005 = ambient temperatureAAE014-005 = ambient temperature			А		The relationsh	nip of the m	easured resistance v	alue
The minimum rms ac current (in A) that will trip a PTC thermistor from the low resistance region to the high resistance region, at specified ambient temperature. AAE014-005 = ambient temperature	trip current		I_t It		between term U_{ab}/U_{ac} to the contact.	inations a a mechanical	nd b or of the output I position of the movi	ratio ng
AAE014-005 = ambient temperature	The minimum PTC thermiston high resistance temperature.	rms ac curr or from the I ce region, at	ent (in A) that will trip ow resistance region t specified ambient	a o the				
	AAE014-005 =	= ambient te	emperature					

REMARKS:

The spindle length is measured with reference to the mounting surface of the potentiometer.

AAE142-005 0 s) 1 simple	M3 non-quantitative code	A52	AAE148-00	5 01 level nom	NR33.3ES2 real measure m	Т03
actuator type moving contact	actuator t	actuator type ype		spindle dia	ameter	d_spin	
Code of the mo potentiometer.	oving conta	act actuator type of a		The nomina	al diameter (in	a _{spin} m) of the spindle of a	
ROT = rotary SLD = slide				rotary poter	niometer.		
	11	м 2	A 5 9	AAE149-00	95 02 simple	M17 non-quantitative code	A59 Ə
S	simple	non-quantitative code	A30	safety app	roval	safety approval	
mounting posi	ition	mtg position		The abbrev approved th	iated name of ne safety of ar	the office which has n electric, electronic o	r
Code of the (int potentiometer v	tended) m with printed	ounting position of a d wiring pins.		electromecl	hanical compo	onent.	
HOR = horizor	ntal version	n		BEAB(BSI) CEBEC	= British Elect = Comite Elect (Belgium)	trical Approvals Board ctrotechnique Belge	
	i version			CSA DEMKO	= Canadian S = Danmarks E	tandards Association Elektriske	
AAE145-005 0 s)2 simple	M3 non-quantitative code	A57	EI	Materiellkontr = Elektriska Ir	ol hspektorated (Finland))
spindle materi	al of pote	ntiometer spindl	e mat	JIS	= Health and = Japanese Ir (Committee)	numan services (USA ndustrial Standards)
Code of the spi	indle mate	rial of a rotary		KEMA	= Keuring var Materialen	Elektrotechnische	
potentiometer.				LCIE	= Laboratoire Electrique	Central Industries	
MTL = metal PLA = plastic					West German	raete verordnung ny) «tricke Materiallkontro	1
			500		(Norway)	ischer	I
AAE146-005 0	evel max	nR14 integer measure	E06	ROV	Elektrotechnis	scher Verein rordnung (West	
ganging tolera	ince	aanging tol		SEMKO	Germany) = Svenska Ele	ektriska	
gunging torord		ganging tol		SEV	Materielkontro = Schweizeris	ollanstalten scher	
The maximum g potentiometer.	ganging to	lerance (in dB) of a ta	ndem	UL	Elektrotechnis = Underwriter	scher Verein s' Laboratories Inc.	
AAE147-005 0	01	NR33.3ES2	Т03	VDE	= Verband De Elektrotechnis	eutscher scher Verein	
10	evei nom	real measure m		AAE150-00	95 01	NR33.3ES2	E06
spindle length	I	l_spin I _{spin}			simple	real measure V	
The nominal ler potentiometer.	ngth (in m)) of the spindle of a ro	tary	voltage (ac	;)	@U_ac @U _{ac}	

The rms sinusoidal voltage (in V) applied to an electric, electronic or electromechanical component, as a variable.

AAE151-005	01 simple	M8 non-quantitative code	A52	AAE158-005	01 level min	NR33.3 real me	3ES2 easure	Т03
winding conf separation	figuration	winding config		clearance to spark gap	earth	cleara i clearar	nce nce	
Code of the winductive ante	vinding confi enna.	iguration of a transform	mer or	spark distanc	e			
AUTO =	auto			The minimum transformer.	clearance	to earth	(in m) of a pov	wer
SEFRI -	separate			IEC 60050 (4	41) (1984)			
AAE152-005	01 simple	X3 non-quantitative code	A56	AAE159-005	01 level min	NR33 real me	3.3ES2 easure	Т03
power/signal		power/signal				m		
Code of the application of a transformer or cable.			le.	creepage dis leakage path	tance	d_crpg d _{crpg}	9	
POW = powe SIG = signa	er Al			The minimum and non-live p connector.	creepage parts of a p	distance bower trai	(in m) betwee nsformer or	n live
AAE155-005	01 level min	NR33.3ES2 real measure Ω	E33	IEC 60742 (1	983)			
insulation re	sistance	R_ins R _{ins}		AAE160-005	01 level nom	NR1 S. integer A	4 ^r measure	E01
The minimum between the l relay, transfor	insulation r ive and non rmer or coni	esistance (in ohms) -live parts of a switch, nector.		nominal outp	out curren	t I_out		
IEC 60068 (1	969)			The nominal of transformer	output curr	ent (in A)) of a power tage and nomi	nal
REMARKS: IEC 60742 (1	983)			frequency.				
The insulation voltage of app	n resistance proximately	is measured with dc 500 V applied, the		IEC 60742 (1	983)			
measurement the voltage.	being made	e 1 min after application of		REMARKS: For variable power transformers, the nominal output current is valid over the whole range.				utput
AAE156-005	01 level nom	NR33.3ES2 real measure Hz	F03	AAE163-005	01 level miNo	NR14 oMax i V	l integer measu	E06 re
upper freque	ncy	f_upr f _{upr}		input voltage supply voltage	; e	U_in		
The nominal t transformer.	upper freque	ency (in Hz) of a signa	II	The value as sinusoidal inp transformer.	specified b out voltage	oy level (r (in V) of	miNoMax) of tl a power	he rms
AAE157-005	01 level nom	NR14 integer measure Hz	F03	REMARKS: IEC 60742 (1 For polyphase	983): e supply, tl	ne line vo	oltage is intend	led.
lower freque	ncy	f_low f _{low}					_	

The nominal lower frequency (in Hz) of a signal transformer.

rms

AAE164-005	01 level max	NR14 integer measure V	E06	AAE169-005	02 N level nom	NR14 E integer measure V	9 6
no-load outp	ut voltage	U_out(open) U _{out(open)}		output voltag	Je	U_out U _{out}	
The maximum nominal input	n rms no-loa voltage and	d output voltage (in V) I at nominal frequency	at	The nominal r total rotation a	ms sinusoid angle of a v	dal output voltage ariable power tra	e (in V) at insformer.
IEC 60742 (19	983)			IEC 60186 (19	987)		
AAE165-005	02 level nom	NR33.3ES2 real measure VA	E49	AAE170-005	02 level min	NR33.3ES2 real measure 1	Q59
output powe	r	P_out P _{out}		brush life		N_turn N _{turn}	
The nominal r transformer.	ms power (i	n VA) of a power		The minimum of the brush o	guaranteec f a variable	l number of two-v power transform	way turns ier.
IEC 60076-1 ((1976)			NOTE After the test its tolerance.	the contact	resistance shall	be within
AAE166-005	01 level miNoN	NR33.3ES2	F03				
oporating fro	quoney	Hz f oper	•	AAE171-005	02 level min	NR33.3ES2 real measure	Q59
operating ire	quency	f _{oper}					
The value as frequency (in	specified by Hz) of a pov	level (miNoMax) of th ver transformer.	e	brush life ex	pectation	N_turn(exp) N _{turn(exp)}	
IEC 60076-1 ((1976)			The minimum turns of the br	expectatior rush of a va	n of the number o riable power trar	of two-way Isformer.
AAE167-005	02 simple	M3 non-quantitative code	A56	AAE172-005	02 level nom	NR14 integer measure 1	Q56
transformer i	model	tfm model		aspaina num	bor	Ngang	
Code of the m	nodel of a va	ariable power transforr	ner.	number of var	iable eleme	ents N _{gang}	
BNC = bencl LBR = *labo	h (protective ratory(bencl	e housing) n model with		The number o resistors, pow	f variable e ver transforr	lements (capacit ners) with a com	ors, mon
PNL = panel	l (not protec) ted live parts)		actuating devi	ice.		
AAE168-005	01 level max	NR14 integer measure A	E01				
maximum ou continuous ov	tput curren verload	t I_out I _{out}					

The maximum continuous sinusoidal rms output current (in A) in the most favourable brush position of a variable power transformer at nominal input voltage and nominal frequency.

AAE173-005 01 lev	el nom	NR14 integer measure	T01	AAE177-005	03 simple	M8 non-quantitative co	A51 de
		acy		integrated co	omponent	integr comp	
total mechanical angle of mechani	l rotatio ical rotati	n \$a_rot ion α _{rot}		Code indication	ng a compo	nent integrated with	a motor
The nominal angl moving contact a a variable power	le of the ctuator o transforr	total rotation (in deg f a rotary potentiome ner.) of the eter or	BRAKE = EBRAKE = ENCOD = GEAR =	brake *brake elec encoder gearbox	tromagnetic	
AAE174-005 01 sim	nple	M3 non-quantitative cod	A51 le	LGEAR = MBRAKE = PBRAKE =	*gearbox lir *brake mec *brake pern	near hanical nanent magnetic	
magnet type magnetisation sys magnet material	stem	magnet type		PINION = RGEAR = SPARKS = TACHO =	pinion *gearbox ro spark suppr tachogenera	otational ressor ator	
Code of the magr motor.	net type	of the iron armature	of a		-		
ELM = electrom	agnet			AAE178-005	01 simple	X3 non-quantitative co	A52 de
NOM = no magn PMM = permane	iet ent magni	et		supply curre	nt type	l_sup type	
	-			Code of the s has been des	upply curre igned.	nt type for which a m	otor
AAE175-005 01 sim	nple	M3 non-quantitative cod	A51 le	AC = ac DC = dc			
coil connection		coil connection		STP = stepp UNI = unive	oing motor (ersal motor	pulse) (ac or dc)	
Code of the coil o	connectio	on of a motor.					
CMP = compoun SHP = shunt (pa SRS = series	nd arallel)			AAE179-005	01 simple	X3 non-quantitative co	A52 de
				trajectory of	motion	trajectory	
AAE176-005 01 sim	nple	M3 non-quantitative cod	A51 le	Code of the ti motor.	rajectory of	motion of the armatu	re of a
armature materia	al	armature mat		LIN = linea ROT =	r rotational		
Code of the type motor.	of mater	ial of the armature o	fa				
IRL = iron-less IRN = iron	;			AAE180-005	01 level nom	NR33.3ES2 real measure V/(r/min)	E06
				electromotiv	e force	E	
				The nominal i winding of a r and the motic	rated induce notor as a r on.	ed voltage in V/(r/mir esult of the magnetic	ı) in the ; field

IEC 60050 (131) (2002)

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AAE182-005	02 level nom	NR33.3ES2 real measure W	E49	AAE188-005	02 N simple	M3 non-quantitativ	A56 ve code
		D in		direction of r	otation	dir rot	
input power		P_IN P _{in}		Code of the d spindle of a ro	irection of r otational mo	otation as seen otor.	from the
The nominal e motor.	electric pow	er (in W) supplied to a		CCW = anti-c CW = clockwi	lockwise (co se	ounter-clockwis	e)
IEC 60050 (15	51) (2001)			REV = revers	ible		
AAE183-005	02 simple	M8 non-quantitative code	A52	REMARKS: The sense of from the drive drive end.	rotation whe end of the	en looking alon motor towards	g the shaft the non-
ac motor syn	chronism	motor syn					
Code indicatir ASYN = async	ng the syncl	nronism of an ac motor	r.	AAE189-005	03 level nom	NR33.3ES2 real measure kg.m ²	K07
SREL = *reluc SYN = synch	ctance nronous			rotor inertia		I J	
AAE184-005	01 level nom	NR33.3ES2 real measure V	E06	The nominal r rotational mot	otor momer or.	nt of inertia (in l	(g.m ²) of a
rated input v	oltage (ac)	U_ac		AAE190-005	02	ND2 33	KUO
The nominal r	ms alternat	ing voltage (in V) at th	е	AAE 190-003	level max	real measure N	KU9
	n de motor.			maximum rad	dial force	F_rad	
For polyphase	e supply, the	e line voltage is intend	ed.	T I			
IEC 60034-1 ((2004)			motor.	i radiai torci	e (in N) on the	spindle of a
AAE186-005	01 level nom	NR33.3ES2 real measure V	E06	AAE191-005	02 level nom	NR33.3ES2 real measure N.m	K12
rated input v	oltage (dc)	U_dc U _{dc}		rated torque max working t	torque	T_rat T _{rat}	
The nominal o a dc motor.	direct voltag	e (in V) at the termina	ls of	The nominal t	orque (in N	.m) of a rotatio	nal motor.
IEC 60034 (19	983)			IEC 60050 (4	11) (1996)		
AAE187-005	01 level min	NR33.3ES2 real measure s	F02	AAE192-005	02 simple	NR33.3ES2 real measure N.m	K12
mechanical t	ime consta	nt \$t т		torque		@T @T	

The minimum value of the time (in s) an unloaded dc motor needs, starting from rest, to reach 63 % of the unloaded speed at the rated input voltage.

Torque (in N.m) of a rotational motor, as a variable.

			– 136 –	61360-4 © IEC:2005(E)			
AAE193-005	01 simple	NR33.3ES2 real measure r/min	F03	AAE197-005	01 level nom	NR33.3ES2 real measure A	E01
speed		@v @v		rated input c	urrent	I 1	
Speed (in r/m	in) of a rota	ational motor, as a vai	riable.	The nominal of dc motor at ra	direct input ated input vo	current (in A) of a rot oltage and at rated w	tational orking
AAE194-005	01 level nom	NR14 integer measure r/min	F03	AAE199-005	02	NR33.3ES2	K12
synchronous	speed	v_syn			level min	real measure N.m	
The nominal s	speed of ro	tation (in r/min) of a		starting torq	ue	T_strt T _{strt}	
NOTE This is a result of the system to which the machine is		chine is	The minimum starting torque (in N.m) which a rotational dc motor develops with the rated input voltage (dc) applied.			put	
connected and either the number of poles or number of projections in the machine, at a gi (fixed) frequency.		ne en	IEC 60050 (4	11) (1996)			
IEC 60050 (4 ⁻	11)(1996)			AAE200-005	02 level max	NR23.3 real measure N	K09
AAE195-005	01 level nom	NR33.3ES2 real measure r/min	F03	maximum ax	ial force	F_ax F _{ax}	
rated speed		v_rat ∨ _{rat}		The maximum rotational mot	n axial force tor.	(in N) on the spindle	∍ of a
The nominal s asynchronous and rated torc	speed (in r/ s or dc moto que.	min) of a rotational ac or at the rated input ve	: oltage	NOTE Axial means in line with the shaft (pull or push).			ı).
AAE196-005	02 level min	NR33.3ES2 real measure	K12	AAE201-005	02 level max	NR23.3 real measure N.m	K12
starting torq	ue	T_strt T _{strt}		pull-out torq breakdown to maximum wor	ue rque 'k torque	T_pull-out T _{pull-out}	
The minimum rotational ac r voltage-ac ap	starting to notor deve plied.	rque (in N.m) which a lops with the rated inp	out	The maximum torque (in N.m) that a rotational stepping motor can develop while running at a givestepping rate without losing steps.		l a given	
NOTE For capacitor specified.	motors, the	e capacitance has to t	be	AAE209-005 IEC 60050 (4	= stepping r 11) (1996)	ate	

IEC 60050 (411) (1996)

IEC 60050 (411) (1996)

AAE202-005	02 level max	NR33.3ES2 real measure N.m	K12	AAE207-005	02 level max	NR33.3ES2 real measure N.m	K12
pull-in torqu max pull-in	e	T_pull-in T _{pull-in}		holding torq	ue	T_hold T _{hold}	
The maximum stepping moto stepping rate	n torque (in l or can devel without losi	N.m) that a rotational op when starting at a g ng steps.	given	The maximum externally app without causin	n steady toro blied to the s ng continuo	que (in N.m) that can spindle of an excited us rotation.	be motor
AAE209-005 -	= stepping r	ate					
IEC 60050 (4	11) (1996)			AAE208-005	01 level nom	NR1 S4 integer measure deg	T01
ÅAE203-005	01 level nom	NR33.3ES2 real measure A	E01	step angle		\$a_step α _{step}	
current per p	hase	I_ph I _{ph}		The nominal a positions of a switch.	angle (in de stepping m	g) between adjacent s otor or a mechanical	step rotary
The nominal r stepping moto	ms input cu or.	rrent (in A) of a linear		AAE209-005	02 simple	NR33.3ES2 real measure	F03
AAE204-005	01 level nom	NR33.3ES2 real measure V	E06	stepping rate	•	@step rate @step rate	
rated input v	oltage (pul	se) U_pul U _{pul}		Number of ste a variable.	eps/s of a ro	tational stepping mot	or, as
The nominal p stepping moto	oulse voltage or.	e (in V) at the terminal	ls of a	AAE210-005	02 level minM	NR2 S3.3	E06
IEC 60034-1 ((2004)					V	
AAE205-005	01 level max	NR14	F03	input voltage	e limit	V_IIim V _{IIim}	
		step/s		The value as limiting direct	specified by	r level (minMax) of the	e n IC
pull-in rate		pull-in rate pull-in rate					F 2 2
The maximum unloaded step	n switching r oping motor	ate (in step/s) at whicl can start without losin	h an g	AAE212-005	simple	real measure Ω	233
0.000				load resistan	ice	@R_L @R	
AAE206-005	01 level max	NR14 integer measure step/s	F03	Load resistan electric, elect	ce (in ohms ronic or elec) at the output of an ctromechanical comp	onent,
pull-out rate		pull-out rate pull-out rate		as a variable.			

The maximum switching rate (in step/s) which an unloaded stepping motor can follow without losing steps.

AAE214-005	02	NR23.3	H07
	level max	real measure	
		W	

power dissipation per output P/out Pout

The maximum permissible power dissipation per output (in W) of an IC at specified ambient temperature.

AAE014-005 = ambient temperature

AAE217-005	02 level max	NR3 S3.3ES2 real measure A	E01
input current	limit	l_llim	

dc input diode current	l _{llim}
input clamping current	I _{INlim}
	I _{IKlim}

The maximum limiting dc input current (in A) of a digital function of an IC.

REMARKS:

For ICs containing protection diodes, clamping occurs when the applied input voltage exceeds the supply voltage, or drops below GND or V_{SS} level.

AAE218-005	02 level max	NR3 S3.3ES2 real measure A	E01
output curren	nt limit	I_Olim	
dc output dioc	de current	I _{Olim}	
output clampi	ng current	I _{OKlim}	

The maximum limiting dc output current (in A) of a digital function of an IC.

REMARKS:

For ICs containing protection diodes, clamping occurs when the applied output voltage exceeds the supply voltage, or drops below GND or $V_{\rm SS}$ level.

AAE223-005 01 NR3 S..3.3ES2 E01 level max real measure A

input leakage current I_I I₁

The maximum guaranteed input leakage current (in A) of a digital function of an IC, at specified supply voltage and in a temperature range between specified temperatures (T_1 and T_2).

AAE102-005 = supply voltage AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

REMARKS: Required input condition (V_I): For CMOS and HCMOS, zero (GND/V_{SS}) or supply voltage (V_{CC}/V_{DD}). For TTL, only valid for an input voltage equal to V_{CC} .

AAE224-005	01 simple	NR2 S3.3 real measure V	E06
input voltage)	@V_I @V⊨	

The dc input voltage (in V) of an IC, as a variable.

AAE225-005	02 simple	NR33.3ES2 real measure s	Т07
rise time		@t_r @t _r	

The rise time (in s) of a step function change (10% to 90%) of a signal applied to an electric-electronic or electromechanical component, as a variable.

AAE226-005	01 simple	NR3 S3.3ES2 real measure A	E01
output curre	nt	@I_O @Io	

The dc output current (in A) of an IC, as a variable.

AAE228-005	01	NR2 S3.3	E06
	simple	real measure V	

output voltage	@V_o(dc)
	@V _{o(dc)}

The dc output voltage (in V) of an IC, as a variable.

AAE231-005	02	NR3	3.3ES2	Т07
	level minTy	/pMax	real n	neasure
		s		

propagation delay	t_PD
delay time	t _{PD}

The value as specified by level (minTypMax) of the propagation delay time (in s) of a combinatorial, sequential or interface function of an IC in a temperature range between specified temperatures (T_1 and T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

AAE233-005	02	NR33.3	ES2	Т07
	level minT	урМах	real	measure
		e		

HIGH to LOW propagation timet_PHLHIGH to LOW delay timetpHL

The value as specified by level (minTypMax) of the HIGH to LOW propagation time (in s) of a combinatorial, sequential or interface function of an IC in a temperature range between specified temperatures (T_1 and T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

AAE235-005	02	NR33.3ES2	
	level max	real measure	
		S	

The maximum guaranteed HIGH-level to LOW-level transition time (in s) at the output of a digital function of an IC at specified load capacitance, supply voltage and in a temperature range between specified temperatures (T_1 and T_2).

AAE102-005 = supply voltage AAE256-005 = load capacitance AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

REMARKS: The voltage level specified for the beginning of the slope is 10 %, that for the end of the slope is 90 %.

AAE237-005	02 N	Т07	
	level minTypN	/lax real	measure
	S		

LOW to HIGH propagation time t_PLH LOW to HIGH delay time t_{PLH}

The value as specified by level (minTypMax) of the LOW to HIGH propagation time (in s) of a combinatorial, sequential or interface function of an IC in a temperature range between specified temperatures (T_1 and T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

T07

AAE238-005	02	NR33.3ES2	Т07
	level max	real measure	
		S	

output rise timet_rLOW to HIGH transition timetrswitching timetTLH

The maximum guaranteed LOW-level to HIGH-level transition time (in s) at the output of a digital function of an IC at specified output capacitance, supply voltage and in a temperature range between specified temperatures (T_1 and T_2).

AAE102-005 = supply voltage AAE256-005 = load capacitance AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

REMARKS:

The voltage level specified for the beginning of the slope is 10 %, that for the end of the slope is 90 %.

AAE239-005	03	NR3 S3.3ES2	E01
	level max	real measure	
		۸	

HIGH off-state output current I_OZH

3-state output leakage current $$I_{\text{OZH}}$$ off-state current $$I_{\text{OZ}}$$

The maximum guaranteed HIGH off-state dc output current (in A), of a 3-state digital function of an IC, at the maximum supply voltage and in a temperature range between specified temperatures (T_1 and T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

REMARKS:

Applies to digital ICs with 3-state outputs. It is assumed that the required external HIGH-state output voltage (V_{OH} or V_{CC} or V_{DD}) is applied, as well as the appropriate input condition (V_{IL} and/or V_{IH}).

AAE240-005 03 NR3 S..3.3ES2 E01 level max real measure

LOW off-state output current I_OZL

The maximum guaranteed LOW off-state dc output current (in A), of a 3-state digital function of an IC, at maximum supply voltage and in a temperature range between specified temperatures (T_1 and T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

REMARKS:

Applies to digital ICs with 3-state outputs. It is assumed that the required external LOW-state output voltage (V_{OL} or V_{SS} or GND) is applied, as well as the appropriate input condition (V_{IL} and/or V_{IH}).

AAE254-005	02	NR3 S3.3ES2	E01
	level min	real measure	
		А	

LOW-state output current I_OL LOW-level output current I_{OL} output sink current

The minimum guaranteed LOW-state dc output current (in A) of a digital function of an IC, at specified supply voltage, output voltage and in a temperature range between specified temperatures $(T_1 \text{ and } T_2)$.

AAE102-005 = supply voltage AAE228-005 = output voltage AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

REMARKS:

Refers to the minimum current sinking capacity of the output of a digital IC, at which a specified output voltage (V_{OL}) is still maintained, while the inputs are either at zero (GND/V_{SS}) or at supply voltage level (V_{CC}/V_{DD}).

AAE255-005	02	NR3 S3.3ES2	E01
	level min	real measure	
		Δ	

HIGH-state output current I_OH HIGH-level output current I_{OH} output source current

The minimum guaranteed HIGH-state dc output current (in A) of a digital function of an IC, at specified supply voltage, output voltage and in a temperature range between specified temperatures $(T_1 \text{ and } T_2)$.

AAE102-005 = supply voltage AAE228-005 = output voltage AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

REMARKS:

Refers to the minimum current sourcing capacity of the output of a digital IC, at which a specified output voltage (V_{OH}) is still maintained, while the inputs are either at zero (GND/V_{SS}) or at supply voltage level (V_{CC}/V_{DD}).

AAE256-005	01 simple	NR33.3ES2 real measure F	E09
load capacita	ince	@C_L @C _L	

Load capacitance (in F) at the output of an electric, electronic or electromechanical component, as a variable.

AAE257-005	01 level max	NR23.3 real measure W	H07
power dissip	ation	P	

The maximum power (in W) of an electric-electronic or electromechanical component which may be dissipated continuously at specified temperature of a temperature type.

AAE683-005 = temperature type AAE685-005 = temperature

AAE259-005	01	M8	A58
	simple	non-quantitative cod	е

shape/size code BSI shape/size

BSI code of the shape/size of an electric-electronic or electromechanical component for placement on printed circuits.

- BR = bead package, two radial leads
- CS = cylindrical package, single-ended, two leads
- CT = cylindrical package, stud mounting
- DA = disc package, two axial leads
- DD = disc package, double tag
- DL = dual in-line package, multi-lead
- DP = disc package, printed circuit board mounting
- DR = disc package, two radial leads
- DS = disc package, stud mounting
- DT = disc package, potting tag
- FP = flat pack, multi-lead
- PA = potentiometer, panel mounting
- PB = potentiometer, panel mounting
- PC = potentiometer, panel mounting PD = potentiometer, panel mounting
- PD = potentiometer, panel mounting PE = potentiometer, panel mounting
- PF = potentiometer, panel mounting
- PP = rectangular package, three leads, horizontal adjuster
- PQ = rectangular package, three leads, vertical adjuster
- RA = rectangular package, two axial leads RC = rectangular package, metallised ends
 - (SMD)
- RR = rectangular package, two radial leads
- RS = rectangular package, two strip leads
- TA = tubular package, two axial leads
- TR = tubular package, two radial leads
- XA = oval package, two mounting holes, two leads
- XB = stud-mounted package, one fixed tag XC = cylindrical metal-can package,
- multi-lead
- XD = top-hat package, axial leads
- XE = stud-mounted package, two fixed tags
- XF = stud-mounted package, one flexible lead with tag
- XG = stud-mounted package, two flexible leads with tag
- XH = stud-mounted package, one flexible lead
- XK = flat package, three in-line leads
- XL = near-cylindrical package, three leads on circle
- XM = flat package, mounting hole, two/three leads
- XN = flat package, three pre-formed leads
- XP = moulded case, three mounting feet
- XR = flat package with flange, mounting hole, 2/3 leads

BS 6943 (1988)

REMARKS:

The complete code consists of three parts:

a) a two-letter drawing code, followed by

- b) a numeric code giving a salient property, which may be either a major dimension or the number of leads, followed by
- c) a hyphen and a serial number to distinguish components with the same drawing and numeric codes.

For reference drawings see source document.

AAE260-005	02	NR1 S4	H02
	simple	integer measure Cel	
case tempera	ature erature	@T_case @T _{case}	

The case temperature (in Cel) of a component, as a variable.

IEC 60068-1 (1988)

AAE262-005	01	М8	A55
	simple	non-quantitative code)

encapsulation technology encapsulation

Code indicating the encapsulation technology which has been applied in an electric, electronic or electromechanical component.

LACQ MOULD POTTED SEAL SLEEVE WRAP	 lacquered moulded potted sealed coat sleeved wrapped end-filled
---	--

AAE263-005	01	М8	A56
	simple	non-quantitative code)

polarity type polarity

Code of the type of polarity of a fixed electrolytic capacitor indicating whether it is designed for unidirectional or alternating/reversible voltages.

BIPOL	= bipolar: for ac voltages
	and/or reversible dc voltages

POLAR = polar: for unidirectional voltages

AAE266-005	03	М3	A57
	simple	non-quantitative code	e

dielectric subclass 1 diel subclass1

IEC standard code of the subclass of a fixed class1 ceramic capacitor, as determined by the temperature coefficient and its tolerance.

1A	= 1A
1B	= 1B
1C	= 1C
1D	= 1D
1F	= 1F

IEC 60384-8 (1988)

REMARKS:

First (numeric) character is always 1 (see AAE038-005)

Second (alphabetic) character indicates tolerance on temperature coefficient of capacitance:

sub-class code	Α	В	F	С	D
temp. coeff.	Toleran	Tolerance on temperature			
(10 ^{-6/K})	Coeffici	Coefficient (10 ^{-6/K})			
+100 to -220	+/-15	+/- 30			
-330 to -470	+/-30	+/- 60			
-750 to -1000	+/-60	+/-120	+/- 250		
-1500			+/- 250		
-2200 to -3300			+/- 500		
-4700			+/-1000		
-5600			+/-1000		
+140 >TC> -1000				С	
+250 >TC> -1750					D

For the meaning of the values, see table II of IEC 60384-8 (1988).
AAE267-005	01 level max	NR14 integer measure Cel	H02	AAE272-005	01 simple	NR14 integer mea Cel	H asure	02
rated temper	ature	T_rat T _{rat}		mounting bas	se tempera	ture @T_ @T _{mb}	mb	
The maximum defined set of an electric, el component.	temperatur rated value ectronic or e	e (in Cel) at which a s apply simultaneously electromechanical	y for	The temperati transistor, dio device or IC, a JESD 77B (20	ure (in Cel) de, trigger (as a variabl 000)	of the moun device, opto e.	ting base of electronic	а
NOTE Generally refe power.	erring to cur	rents, voltages, and/or		AAE273-007	01 simple	X8 non-quantil	A tative code	56
AAE268-001	01 level nom	NR3 S3.3ES2	E09	diode applica	ation	diode appl		
		%		Code of the type of application of a diode.				
capacitance The upper tol- of a fixed cap	upper toler erance (in F acitor.	ance C_ut C _{ut}) of the rated capacita	nce	BOD = break REC = rectif SIGD = signa STB = stabil VARD = varial	cover diode ier diode I diode izer diode ble capacita	ance diode		
AAE269-001	01 level nom	NR3 S3.3ES2 real measure %	E09	AAE274-005	02 simple	NR33.3ES real measu A	52 E re	01
capacitance	lower tolera	ance C_It C _{lt}		forward curre	ent	@I_F @I _F		
The lower tole of a fixed cap	erance (in F acitor.) of the rated capacita	nce	The direct cur diode part of a direction, as a	rrent (in A) f an electroni a variable.	lowing throu c device, in	ugh a diode c the forward	or
AAE271-005	01 simple	NR14 integer measure Cel	H02	IEC 60747-2 ((1983)			
junction tem virtual junctio	perature n temperatu	@T_j re @T _j		AAE275-005	01 simple	NR33.3ES real measu A/s	52 E re	01
The junction t diode, trigger a variable.	emperature device, opto	(in Cel) of a transistor pelectronic device or lo	, C as	rate change o	of forward	current @dl _F /dt	@dl_F/d	t
				T I ()				

IEC 60747-1, amendment 3 (1996)

The rate of change of forward current (in A/s) of a diode, as a variable.

AAE276-005	03 level max	NR33.3ES2 real measure A	E01	AAE281-005	02 level max	NR33.3ES2 real measure s	Т07
reverse curre continuous di	e nt rect reverse	I_R current I _R		reverse reco	very time	t_rr t _{rr}	
The maximum A) of a diode, at specified re temperature t	i continuous optoelectro everse volta ype.	s reverse direct curre nic device, thyristor ge and temperature o	nt (in or triac of a	The maximum diode, when s current to a s change of for	n reverse re- switched from pecified rev ward curren	covery time (in s) of a m a specified forwarc erse voltage at a spe t and junction temper	a I cified rature.
AAE335-005 AAE683-005 AAE685-005	= reverse vo = temperatu = temperatu	oltage re type re		AAE271-005 AAE274-005 AAE275-005 AAE335-005	= junction te = forward cu = rate chang = reverse vo	emperature urrent ge of forward current bltage	
IEC 60747-2	(2000)			IEC 60747-2	(2000)		
AAE277-005	02 level max	NR23.3 real measure V	E06	AAE282-005	01 level max	NR33.3ES2 real measure A	E01
reverse volta stand-off volta	ge age	V_R V _R		output curre	nt EHT sup	ply I_O(EHT)	
The maximum continuously to optoelectronic specified tem	voltage (in o a diode o device in t perature of a	V) which may be ap r diode part of an he reverse direction a temperature type.	plied at	The maximum supply output	n output curr of a voltage	rent (in A) at the EHT e multiplier.	
AAE683-005 = AAE685-005 =	= temperatu = temperatu	re type re		AAE283-005	01 level max	NR33.3ES2 real measure	E01
IEC 60747-2 ((2000)			output curre	nt focus su	pply I_Ofoc	
AAE279-005	02 level minTy	NR23.3 /pMax real measu V	E06 ure	The maximum supply output	output curi of a voltage	rent (in A) at the focu e multiplier.	S
forward volta on-state volta	i ge ge	V_F ∨ _F		AAE284-005	03 level max	NR23.3 real measure	E01
The value as forward voltag an optoelectro	specified by ge (in V) acr onic device, ure of a tem	v level (minTypMax) o oss a diode or diode at specified forward perature type	of the part of current	peak inrush	current lim	A it I_IIMlim	
AAE274-005 = AAE683-005 = AAE685-005 =	= forward cu = temperatu = temperatu	irrent re type re		The maximum bridge rectifie	n limiting pe r.	ak inrush current (in	A) of a
IEC 60747-2 ((2000)			AAE285-005	03 level max	NR23.3 real measure	E01

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61360-4 © IEC:2005(E)

А

The maximum limiting non-repetitive peak input current (in A) flowing through a bridge rectifier.

 I_{ISMIIM}

I_ISMlim

non-rep peak input current limit

61360-4 © IEC:2005(E)

AAE286-005 01 NR2..3.3 E01 level max real measure

average output current I_O(AV)

The maximum average output current (in A) of a bridge rectifier at specified maximum mounting base temperature.

AAE287-005 01 NR2..3.3 E01 level max real measure A

repetitive peak output current I_ORM

The maximum repetitive peak output current (in A) of a bridge rectifier.

AAE288-005 02 NR3..3.3ES2 E06 level max real measure V

input voltage peak-to-peak $V_{in(p-p)}$ V_in(p-p)

The maximum peak-to-peak input voltage (in V) of a voltage multiplier.

AAE289-005 02 NR3..3.3ES2 E06 level max real measure

output voltage EHT supply V_O(EHT) $V_{O(EHT)}$

The maximum output voltage (in V) at the EHT output of a voltage multiplier.

AAE290-005 02 NR1..4 E06 level max integer measure

repetitive peak input voltage V_IRM $$V_{\rm IRM}$$

The maximum repetitive peak input voltage (in V) of a bridge rectifier or voltage multiplier.

AAE291-005	01 level max	NR14 integer measure V	E06
rms input vo	Itage	V_I(RMS) VI(RMS)	

The maximum rms input voltage (in V) of a bridge rectifier.

AAE292-005	01	NR14	E06	
	level max	intege V	er measure	
crest workin	g input vo	Itage V _{IWM}	v_iwm	

The maximum peak input voltage (in V) of a bridge rectifier.

NOTE Excluding all repetitive and non-repetitive transient voltages.

AAE293-005	03	NR33.3ES2	E01
	level max	real measure	
		А	

repetitive peak forward current I_FRM

The maximum repetitive peak forward current (in A) flowing through a diode or diac at specified forward voltage.

NOTE Including all repetitive transient currents.

AAE499-005 = forward voltage

IEC 60747-2 (2000)

AAE294-005 01 NR1..4 E01 level max integer measure

non-repetitive peak forward current $$I_FSM$$ $$I_{FSM}$$

The maximum non-repetitive peak forward current (in A) of a diode at specified junction temperature and specified duration prior to the application of the pulse.

AAE028-005 = duration AAE271-005 = junction temperature

IEC 60747-2 (2000)

REMARKS: Half-sinewave duration is 10 ms.

AAE296-005	02	NR14	E01
	level max	integer measure	
		A	

working peak forward current I_FWM

The maximum working peak forward current (in A) of an efficiency diode.

AAE297-005 02 NR3..3.3ES2 E01 level max real measure

repetitive peak reverse current I_RRM repetitive peak recovery current I_{RRM}

The maximum repetitive peak reverse current (in A) of a rectifier diode when switched from a specified forward current to a specified reverse voltage at a specified rate of change of forward current and junction temperature.

AAE271-005 = junction temperature AAE274-005 = forward current AAE275-005 = rate change of forward current AAE335-005 = reverse voltage

AAE298-005 02 NR2..3.3 E01 level max real measure

non-rep varistor peak current I_nrp non-repetitive surge current I_{nrp}

non-repetitive surge current non-repetitive transient current

The maximum limiting non-repetitive value of a pulse current (in A) through a varistor, with specified virtual front time and virtual time to half-value.

AAE125-005 = current (pulse) AAE332-005 = virtual front time AAE333-005 = virtual time to half-value

AAE299-005 01 NR1..4 E06 level max integer measure

crest working reverse voltage V_RWM

working reverse voltage V_{RWM}

The maximum peak reverse voltage (in V), across a rectifier diode.

NOTE

Excluding all repetitive and non-repetitive transient voltages.

IEC 60747-2 (2000)

AAE300-005 02 NR1..4 E06 level max integer measure

repetitive peak reverse voltage V_RRM V_{RRM}

The maximum repetitive peak reverse voltage (in V) across a diode or reverse blocking thyristor.

IEC 60747-2 (2000)

AAE301-005 03 NR1..4 E06 level max integer measure

non-repetitive peak reverse voltage $~~V_RSM~~V_{RSM}~~$

The maximum non-repetitive peak reverse voltage (in V) of a rectifier diode or signal diode.

IEC 60747-2 (2000)

REMARKS:

NOTE

The repetitive voltage is usually a function of the circuit and increases the power dissipation of the device. A non-repetitive transient voltage is usually due to an external cause and it is assumed that its effect has completely disappeared before the next transient arrives.

AAE302-005	02	NR23.3	H07
	level max	real measure	
		W	

repetitive peak reverse power P_RRM P_RRM

The maximum amplitude (in W) of a repetitive square power pulse dissipated in an avalanche rectifier diode or signal diode, operating in the breakdown region, at specified duration, frequency and junction temperature.

NOTE For some types of avalanche diodes, V_{RRM} is specified instead of P_{RRM}

AAE028-005 = duration AAE029-005 = frequency AAE271-005 = junction temperature

AAE303-006	01	NR23.3	H07
	level max	real measure	
		W	

non-rep peak reverse power diss P_RSM P_{RSM} P_{ZSM}

The maximum amplitude (in W) of a single nonrepetitive square pulse dissipated in a rectifier or signal diode, at specified pulse duration and junction temperature prior to the application of the pulse.

AAE028-005 = duration AAE271-005 = junction temperature

AAE304-005	03	NR33.3ES2	H20
	level max	real measure	

J

non-rep peak rev avalanche energy E RSM ERSM

The maximum non-repetitive peak reverse avalanche mode pulse energy (in J) of a rectifier diode, at specified reverse current and maximum junction temperature prior to the application of the pulse and with inductive load switched off.

AAE994-005 = reverse current

NOTE

E_{RSM} can also be calculated from P_{RSM}.

AAE305-005	01 level max	NR2 S3.3 real measure J	H06
Joule-integra	al r fusing	(I**2)*t I^2t	

The maximum capability of a thyristor, triac or diode to absorb energy (in J) at specified time duration.

NOTE

When considered from the point of view of the circuit protected by a fuse, the value of the Joule-integral over the operating time of the fuse is referred to as specific energy, i.e. the energy released as heat in 1 Ω of circuit resistance.

AAE028-005 = duration

IEC 60050-441, amendment 1 (2000)

REMARKS:

The value is given for the selection of fuses.

AAE306-005	03	NR33.3ES2	Т07
	level max	real measure	
		•	

total reverse recovery time t tot

The maximum total reverse recovery time (in s) of an efficiency diode when switched from a specified forward current and with a specified rate-change of forward current and junction temperature to a reverse voltage of about 0,7 V (being the saturation voltage of the transistor in parallel) and a diode reverse current equal to zero.

NOTE

The moment the reverse current equals zero is measured by shifting the flyback pulse, used in the application circuit, and detecting the moment the front of the flyback pulse is entering the reverse current of the efficiency diode.

AAE271-005 = junction temperature AAE274-005 = forward current AAE275-005 = rate change of forward current AAE994-005 = reverse current

AAE310-005	02	NR23.3	E44
	level min	ТурМах	real measure
		Ω	

r_D

diode forward resistance diode series resistance rъ

The value as specified by level (minTypMax) of the series resistance (in ohms) of a signal diode or variable capacitance diode at specified frequency and forward current.

AAE029-005 = frequencyAAE274-005 = forward current

AAE311-005	02	NR23.3	E44
	level	minTypMax	real measure
		0	

diode reverse resistance r_s diode series resistance rs

The value as specified by the level (minTypMax) of the series resistance (in ohms) of a tuning variable capacitance diode at specified frequency and adjusted diode capacitance.

NOTE

The specified diode capacitance has to be adjusted with the reverse voltage.

AAE029-005 = frequency AAE497-005 = diode capacitance

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AAE312-005	01	X3	A56
	simple	non-quantitative code	

diode function diode function

Code of the function of a stabiliser diode.

CUR	= current reg	ulator diode	
REF	= voltage refe	erence diode	
REG	= voltage reg	ulator diode	
STA	= stabistor		
SUP	= transient su	uppressor diode	
AAE3	13-005 01	NR23.3	

AAE313-005	01 level max	NR23.3 real measure V	E06
clamping vol	ltage	V_(CL)R V _{(CL)R}	

The maximum clamping voltage (in V) of a transient suppressor diode at specified non-repetitive peak reverse current, virtual front time and virtual time to half-value.

AAE315-005 = non-rep peak reverse current AAE332-005 = virtual front time AAE333-005 = virtual time to half-value

REMARKS:

8/20 impulse:	8 us virtual front time
	20 us virtual time to half-value
4/10 impulse:	4 us virtual front time
	10 us virtual time to half-value

AAE315-005	02	NR23.3	E01
	simple	real measure	
		А	

non-rep peak reverse current @I_RSM @I_{RSM}

The non-repetitive peak reverse current (in A) of a stabiliser diode, as a variable.

IEC 60060-1 (1989)

E01 AAE316-005 01 NR3..3.3ES2 level max real measure А working current I_Z 17

The maximum direct reverse current (in A) which may be applied continuously to a voltage reference diode, voltage regulator diode or transient suppressor diode.

AAE317-005	01	NR33.3ES2	E01
	level max	real measure	
		Α	

peak working current I ZM I_{ZM}

The maximum peak working current (in A) of a stabiliser diode.

AAE318-005	02	NR23.3	E01
	level max	real measure	
		А	

non-repetitive peak reverse current I_RSM IRSM

The maximum non-repetitive peak reverse current (in A) of a stabiliser diode at specified virtual front time and virtual time to half-value.

AAE332-005 = virtual front time AAE333-005 = virtual time to half-value

IEC 60060-1 (1989)

REMARKS:

8/20 impulse:	8 us virtual front time
	20 us virtual time to half-value
4/10 impulse:	4 us virtual front time
	10 us virtual time to half-value
6/320 impulse:	6 us virtual front time
	320 us virtual time to half-value
10/1000	10 us virtual front time
impulse:	
	1000 us virtual time to half-value

AAE319-005 01 NR1..4 E06 integer measure level max V

maximum clamping voltage U clam U_{clam}

max peak voltage at I class

voltage at class current (IEC)

The maximum clamping voltage (in V) across a varistor when, at reference conditions, a specified pulse current, with specified virtual front time and virtual time to half-value, is passed through the varistor.

AAE125-005 = current (pulse)AAE332-005 = virtual front time AAE333-005 = virtual time to half-value AAE995-005 = reference conditions

IEC 61051-1 (1991)

61360-4 © IEC:2005(E)

AAE322-005 01 NR2 S..3.3 E06 level max real measure %/K

temperature coefficient S_Z S_Z Sz

The maximum temperature coefficient (in %/K) of a voltage reference diode or voltage stabiliser diode, at specified working current.

AAE500-005 = working current

AAE323-005 01 NR2..3.3 E33 level max real measure Ω

differential resistance r_dif

The maximum differential resistance (in ohms), being the quotient of the delta V_F and delta I_{F_1} of a voltage reference diode at specified working current.

AAE500-005 = working current

AAE324-005	01	NR2	.3.3	E06
	level	miNoMax	real	measure
		V		
working volta	age	V_Z		
reference volt	age	Vz		
regulation vol	tage	V_{ref}		

The value as specified by level (miNoMax) of the working voltage (in V) of a voltage regulator diode or voltage reference diode at specified working current.

AAE500-005 = working current

AAE326-005	01 simple	NR23.3 real measure Cel	H02
tie point tem	perature	@ T_tp @T _{tp}	

The temperature (in Cel) of the tie point of a voltage regulator diode, as a variable.

non-rep peak reverse power diss P_ZSM

The maximum non-repetitive peak reverse power dissipation (in W) of a stabilising diode, at specified time duration and junction temperature prior to the application of the square shaped pulse.

AAE028-005 = duration AAE271-005 = junction temperature

AAE328-005	02	NR23.3	E33
	level max	real measure	
		Ω	

differential resistance r_dif r_{dif}

The maximum quotient of the delta V_F over delta I_F (in ohms), of a voltage regulator diode or stabistor at specified forward current and a frequency of 1000 Hz.

AAE274-005 = forward current

AAE329-005	01	NR3 S3.3ES2	E06
	level max	real measure	
		V/K	

temperature coefficient S_F S_F S_F

The maximum temperature coefficient (in V/K) of a stabistor at specified forward current and forward voltage.

AAE274-005 = forward current AAE499-005 = forward voltage

diode envelope

AAE331-005	01 simple	M17 string	A58
diode packag	je	diode package	

Code of the envelope of a diode or trigger device.

AAE332-005	02	NR33.3ES2	T07
	simple	real measure	
		S	

@t_1 @t₁

virtual front time	
--------------------	--

The virtual front time t_1 (in s) of an impulse applied to a stabiliser diode, as a variable.

NOTE

If oscillations are present on the front, the 10 % and 90 % values should be derived from a mean curve drawn through these oscillations in an analogous manner to that used for oscillatory lightning impulses.

IEC 60060-1 (1989)

REMARKS:

The difference between front times measured according to this definition and to that given in IEC 60060-1 (1989) for lightning impulses is generally less than 10 %.

AAE333-005	02	NR33.3ES2	Т07
	simple	real measure	
		S	
virtual time t	o half val	una (@t 2	

virtual time to half-value $@t_2$

The virtual time to half-value t_2 (in s) of an impulse current applied to a stabiliser diode, as a variable.

IEC 60060-1 (1989)

AAE334-005 01 NR1..4 E06 level minMax integer measure

varistor voltage at 1 mA U_var(1mA) $U_{var(1mA)}$

The value as specified by level (minMax) of the dc voltage (in V) across a varistor when a current of 1 mA dc is passed through it.

AAE335-005	01 simple	NR23.3 real measure V	E06
reverse voltag	i ge	@V_R	
stand-off voltag	age	@V _R	

The direct voltage (in V) applied to a diode or optoelectronic device in reverse direction, as a variable.

IEC 60747-2 (2000)

AAE336-005 01 NR1..4 H02 level max integer measure Cel

mounting base temperature T_mb $$T_{\rm mb}$$

The maximum temperature (in Cel) of the mounting base of a transistor, diode, trigger device, optoelectronic device or IC.

JESD 77B (2000)

AAE337-005	01	NR14	H02
	level max	integer measure	
		Cel	

junction temperature T_j virtual junction temperature **T**_i

The maximum junction temperature (in Cel) of a transistor, diode, trigger device, optoelectronic device or IC.

IEC 60747-1 (1983)

AAE338-005	01	NR14	E06
	level max	integer measure	
		. V	

maximum noise voltage U_n

voltage handling capacity U_n

The maximum simulated programme noise voltage of a loudspeaker (in V), of specified duration and at specified filter and mounting of loudspeaker.

NOTE

After the maximum voltage has been applied, no thermal or mechanical damage fault may result.

AAE028-005 = duration AAE342-005 = mounting of loudspeaker AAE343-005 = filter

AAE339-005	02 level nom	NR33.3ES2 real measure Hz	F03
upper rated f	frequency	f_upr f _{upr}	

The nominal upper frequency (in Hz) of a loudspeaker.

61360-4 © IEC:2005(E)

AAE340-005	01	NR33.3ES2	F03
	level min	real measure	
		Hz	

effective frequency f_e2f_e2

The minimum value of the upper effective frequency (in Hz) of a loudspeaker, microphone or antenna.

REMARKS:

For a loudspeaker, the -10 dB frequency.

AAE341-005	01	NR33.3ES2	F03
	level max	real measure	
		Hz	

effective frequency f_e1 f_e1

The maximum value of the lower effective frequency (in Hz) of a loudspeaker, microphone or antenna.

REMARKS:

For a loudspeaker, the -10 dB frequency.

AAE342-005	01	М3	A51
	simple	non-quantitative code	Э

mounting of loudspeaker @lsp mounting

Code of the mounting arrangement of a loudspeaker.

- ENC = enclosure HSF = half space free field
- UNM = unmounted
- BFL = baffle

NOTE

The performance of a loudspeaker system is determined by the properties of the loudspeaker unit itself and its acoustic loading. The acoustic loading depends upon the mounting arrangements as there are: a) a standard baffle or specified enclosure, b) in free air without a baffle or enclosure, c) in half space free-field, flush with the reflecting plane.

AAE343-005	01	M3	A51
	simple	non-quantitative code	e

@filter

filter network

Code of the filter used with a loudspeaker.

- L = L network
- S = series network
- W = without filter

REMARKS:

The L network is a capacitor in series with a coil and loudspeaker in parallel.

AAE345-005	01 simple	M3 non-quantitative cod	A58 e
female entry socket-inlet bottom entry	,	female entry	
Code of the e	entry of a co	nnector.	
ONE = TWO =	one-way two-way (bo	ottom entry)	
AAE347-005	01 simple	M17 string	A59

CECC specification CECC spec

CECC code of the specification in which an electric/ electronic or electromechanical component is released under the CECC quality assessment system.

CECC 00100

REMARKS: CECC = CENELEC Electronic Components Committee CENELEC = European Committee for Electrotechnical Standardisation Quality assessment: The continuous surveillance of the manufacturer of a product to ensure that it conforms to the requirements of the specification to which it was made. GEN = general SEC = sectional DET = detail

AAE348-005	01 simple	M3 non-quantitative code	A58
pinning arra	ngement	pin arrangement	I
Code of the p	oinning arrai	ngement of a connecto	r.
CIR = circu CON = conc SQU = squa STA = stage	lar entric re gered		(([
AAE349-006	01 simple	M8 non-quantitative code	A56 F
connector ty	pe	connector	Ĭ
Code of the t shape, applic component to	ype of a cor ation, matin which it wi	nnector, according to it g part or the type of Il be permanently attac	s ched.
CIRC = circu IC = conn JACK = plug MOD = modu PCB = conn	lar connecto ector for IC or jack ular connect ector for PC	or cards cor CB	1
RECT = recta RF = rf co SOCK = sock TERM = term	ingular conr nnector et inal	lector	I F S
AAE350-005	01 simple	M8 non-quantitative code	A57
contact finis	h	contact finish	5
Code of the f connector, re	Code of the finish material of the contacts of a connector, relay or switch.		

Ag = silver Au = gold CuZn = brass

Zn = zinc

Ni = nickel PCuSn = phosphor bronze Pd = palladium Sn = tin

AAE351-0	06	01 simple	M8 non-quantitative code	A57
housing n shell mate	nato rial	erial	housing mat	
Code of th connector	em or:	naterial of th switch.	e housing or shell of a	a
CER DAP MET PA PC PLA PPOX PTFE		ceramic *diallylphtha metal *polyamide *polycarbon plastic *polyphenyle *polytetraflu	late ate (makrolon) eneoxide (noryl) orethylene (teflon)	
AAE352-0	05	01 simple	M8 non-quantitative code	A58
terminal-t	о-с	ontact ang	e term cont ang	le
Code of th connector.	e a	ngle betwee	n terminal and contac	t of a
DEG RIGHT STRAI	= -	45 degree 90 degree (1 180 degree	ight angle) (straight)	
AAE353-0	05	01 simple	M3 non-quantitative code	A58
contact se sex of con sex of guid	ex tac des	ts	contact sex	
IEC code o	of tl	ne type of th	e contact of a connec	tor.
F = fe	ma	le (socket) l	EC169-1 (1987)	

M = male (pin) IEC169-1 (1987)

IEC 60807-1 (1991)

AAE354-005	01	М8	A58
	simple	non-quantitative code	е

polarisation polarization

Code of the means by which polarisation of a connector is achieved.

CONTAC	= contact
JUMPER	= jumper
PIN	= pin
PLUG	= plug
SHELL	= shell

REMARKS:

Polarisation is a shape feature on connectors to prevent incorrect mating.

AAE355-005	01	M8	A57
	simple	non-quantitative coc	le

contact body material cont body mat

Code of the material of the body of the contacts of a connector, relay or switch.

BeCu	= beryllium copper
Cu	= copper
CuSn	= bronze
CuZn	= brass
Ni	= nickel
PCuSn	= phosphor bronze

AAE356-005	02	M3	A58
	simple	non-quantitative coo	de

connector shape connector shape

Code of the shape of the shell of a connector.

		/ · · · · · · · · · · · · · · · · · · ·
CIR	= circular	(round)

- D = D-connector
- REC = rectangular

AAE357-005 02 M..3 simple non-quanti

M..3 A59 non-quantitative code

performance cls

performance class

Code of the performance class of a connector.

REMARKS:

Performance class is the combination of mechanical endurance and climatic category.

performance	mechanical	climatic
class	endurance	category
		min/max/days
1	500	55/125/56
1a	500	65/125/65
2	400	55/125/00
3	50	55/125/00

AAE358-005	01	NR33.3ES2	E01
	level max	real measure	
		Δ	

contact current max I_cont

The maximum continuous rms current (in A) per contact of a connector, at specified ambient temperature.

AAE014-005 = ambient temperature

AAE359-005 02 NR1..4 Q56 level nom integer measure 1

number of contacts	N_cont
contact positions	N _{cont}

The total number of contacts of a connector.

AAE360-005	02	NR14	Q56
	level nom	integer measure	
		1	

number of rows N_row N_{row}

The number of contact rows of a connector.

REMARKS:

The rows used to arrange the total number of contacts in a rectangle or trapezium form.

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AAE361-005	02 level min	NR14 integer measure 1	Q59	AAE366-005	5 01 simple	M3 non-quantitative cod	A57 de
		1		channel typ	e	channel type	
mechanical e insertions	ndurance	N_endu N _{endu}		Code indicat a field-effect	ing the mate transistor.	rial type of the chanr	iel(s) of
The minimum separations th electrical load	number of nat the conn	engagements and lector can withstand v	vithout	N = P =	N-channel P-channel		
NOTE After test the stated in IEC	connector s 60169-1 (19	hall fulfil requirement 987).	S	AAE367-005	5 02 simple	NR3 S3.3ES2 real measure	E01
IEC 60169-1 (1987)			drain currer	nt (dc)	@I_D	
AAE362-005	02 level min	NR33.3ES2 real measure m	Т03	The direct cu a field-effect	urrent (in A) f transistor, a	@I⊵ flowing through the d s a variable.	rain of
connector op printed board aperture	ening thickness	d_con d _{con}		AAE368-005	5 01 level max	NR3 S3.3ES2 real measure A	E01
The minimum receive the me board includin excluding add	opening (in etal-clad ba ig conductiv itional plati	 m) in an edge conne se material of a printe ve layer or layers but ng. 	ector to ed	drain currer	nt (dc)	I_D	
IEC 60194 (19	999)			The maximu effect transis	m direct drai stor.	n current (in A) of a f	ield
AAE363-005	01 level nom	NR33.3ES2 real measure m	Т03	AAE370-005	5 01 level minM	NR3 S3.3ES2 ax real meas A	E01 ure
contact lengt	h under ho	ousing I_cont I _{cont}		drain currer	nt (dc)	I_DSS I _{DSS}	
The nominal la a connector th mating part.	ength (in m nat is intend) of that part of a cont led to make contact w	tact of vith the	The value as direct drain o at specified circuited to t	s specified by current (in A) drain-source he gate.	y level (minMax) of th of a field-effect tran voltage and source s	ie sistor short-
IEC 60050 (58	31) (1978)			AAE376-005	= drain-sou	rce voltage	
REMARKS:	nd outside '	the connector housing	r			-	
i on induing o			J.	AAE371-005	01 level max	NR3 S3.3ES2 real measure	E01
AAE364-005	02 simple	M3 non-quantitative cod	A55 e			A	
gate type		gate type		drain cut-of	f current	I_DSX I _{DSX}	
Code indicatir transistor. DEP = *depl ENH = *enha	ng the type etion ancement	of gate of a field-effed	ot	The maximu of a field-effe voltage, gate voltage.	m guarantee ect transistor e-source volt	d drain cut-off curren • at specified drain-so age and source-subs	t (in A) ource trate
JUN = juncti	on gate			AAE381-005 AAE388-005	= gate-sour = source-su	ce voltage bstrate voltage	
				IEC 60747-8	(2000)		

_	1	55	
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AAE372-005 01 level min [*]	NR3 S3.3ES2 TypMax real measu A	E01 re	AAE376-005	01 simple	NR1 S4 integer measure V	E06
gate cut-off current reverse gate current	I_GSS I _{GSS}		drain-source	voltage	@V_DS @V _{DS}	
The value as specified l reverse gate current (in with the drain short-circ specified gate-source v	by level (minTypMax) of A) of a field-effect tran uited to the source and pltage and temperature	f the sistor at of a	The direct vol terminals of a	tage (in V) field-effect	between drain and sou transistor, as a variat	urce ble.
temperature type.			AAE377-005	02 level max	NR1 S4 integer measure	E06
AAE381-005 = gate-sou AAE683-005 = tempera AAE685-005 = tempera	irce voltage ture type ture		drain-source	voltage lin	V nit V_DSlim V _{DSlim}	
AAE373-005 01 level max	NR3 S3.3ES2 real measure A	E01	The maximum drain and sou	n limiting dir Irce termina	ect voltage (in V) betv Is of a field-effect tran	veen sistor.
source cut-off current	I_SDX I _{SDX}		AAE378-005	02 simple	NR1 S4 integer measure V	E06
The maximum guarante A) of a field-effect trans source voltage, drain-ga substrate voltage.	ed source cut-off currer istor at specified drain- ate voltage and drain-	nt (in	drain-substra	ate voltage	@V_DB @V _{DB}	
AAE375-005 = drain-ga AAE376-005 = drain-so AAE378-005 = drain-su	te voltage urce voltage bstrate voltage		The direct vol drain of a field	tage (in V) d-effect tran	between the substrate sistor, as a variable.	and
IEC 60747-8 (2000)			AAE379-005	02 level max	NR1 S4 integer measure V	E06
AAE374-005 01 level min	NR14 integer measure dB	E06	drain-substra	ate voltage	limit V_DBlim V _{DBlim} V _{DUlim}	
common-mode rejection	on ratio CMRR CMRR		The maximum drain and sub	n limiting dir strate of a f	ect voltage (in V) betv ïeld-effect transistor.	veen
The minimum guarantee ratio (in dB) of a dual fie specified drain current, frequency.	ed common mode reject eld-effect transistor at drain-gate voltage and	tion	AAE380-005	01 level max	NR33.3ES2 real measure V	E06
AAE029-005 = frequenceAAE367-005 = drain cuAAE375-005 = drain-ga	:y rrent (dc) te voltage		equivalent n equivalent inp	oise voltag out noise vo	e V_n Itage V _n	
$CMMR = -20 \log \left \Delta \frac{g_{os}}{g_{fs}} \right \text{in } \sigma$	β		The maximum field effect tra drain-source	n equivalent Insistor at s voltage and	noise voltage (in V) c pecified drain current, bandwidth.	of a
AAE375-005 02 simple	NR14 integer measure V	E06	AAE367-005 AAE376-005 AAE934-005	= drain curr = drain-sour = bandwidth	ent (dc) rce voltage I	
drain-gate voltage	@V_DG @V _{DG}		IEC 60747-1	(1983)		

The direct voltage (in V) between the drain and gate of a field-effect transistor, as a variable.

AAE381-005	01	NR1 S4	E06
	simple	integer measure	
		V	

gate-source voltage	@V_GS @V
	@v _{GS}

The direct voltage (in V) between gate and source terminals of a field-effect transistor, as a variable.

AAE383-005	01	NR33.3ES2	E06
	level max	real measure	
		V	

gate-source voltage difference $|DV_GS|$

The maximum absolute value (in V) of the difference in direct gate-source voltages of a dual field-effect transistor at specified drain current and drain-gate voltage.

AAE367-005 = drain current (dc) AAE375-005 = drain-gate voltage

AAE384-005	02 NR1 S4			E06	
	level	minTypMax	integer	measure	
		V			

gate-source threshold voltage V_GSth

V_{GSth} V_{GS(T)} V_{GS(TO)}

The value as specified by level (minTypMax) of the direct threshold voltage (in V) between gate and source terminals of an enhancement field-effect transistor at specified drain current and drain-source voltage.

AAE367-005 = drain current (dc) AAE376-005 = drain-source voltage

IEC 60747-8 (2000)

AAE386-005 01 NR1 S..4 E06 level minTypMax integer measure

gate-source cut-off voltage V_GSoff

V_{GSoff} V_{(P)GS}

The value as specified by level (minTypMax) of the gate-source cut-off voltage (in V) of a depletion fieldeffect transistor at specified drain current, drainsource voltage and temperature of a temperature type.

AAE367-005 = drain current (dc) AAE376-005 = drain-source voltage AAE683-005 = temperature type AAE685-005 = temperature

IEC 60747-8 (2000)

AAE387-005	02	NR1 S4	E06
	level max	integer measure	
		V	

source-substrate voltage limit V_SBlim $$V_{\text{SBlim}}$$

The maximum limiting direct voltage (in V) between source and substrate of a field-effect transistor.

AAE388-005 01 simple

NR1 S..4 integer measure E06

E06

source-substrate voltage $@V_{SB}$ $@V_{SB}$

The direct voltage (in V) between the source and the substrate of a field-effect transistor, as a variable.

ν

AAE389-005 02 NR3..3.3ES2 level max real measure V/K

thermal drift gate-source voltage d(\$DV_GS)/dT |d(Δ V_{GS)}/dT|

The maximum absolute value (in V/K) of the thermal drift of the gate-source voltage difference of a dual field-effect transistor at specified drain-gate voltage, drain current and ambient temperature.

AAE014-005 = ambient temperature AAE367-005 = drain current (dc) AAE375-005 = drain-gate voltage

E09 AAE390-005 01 NR3..3.3ES2 level minTypMax real measure F

 C_{rss}

feedback capacitance C_rs C_{rs}

transfer capacitance

The value as specified by level (minTypMax) of the capacitance (in F) between the drain and the gate with the input short-circuited to ac, of a field-effect transistor at specified frequency, drain-source voltage and gate-source voltage.

AAE029-005 = frequency AAE376-005 = drain-source voltage AAE381-005 = gate-source voltage

IEC 60747-8 (2000)

AAE391-005 02 E33 NR3..3.3ES2 level minTypMax real measure 0

drain-source on-state resistance R_DSon Roson

The value as specified by level (minTypMax) of the dc resistance (in ohms) between the drain and source terminals of a field-effect transistor with a specified gate-source voltage applied to bias the device to the on-state, a specified drain current and temperature of a temperature type.

AAE367-005 = drain current (dc) AAE381-005 = gate-source voltage AAE683-005 = temperature type AAE685-005 = temperature

IEC 60747-8 (2000)

AAE393-005	02	NR33.3ES2	E33
	level max	real measure	
		0	

drain-source on-state resistance r_ds(on) r_{ds(on)}

The maximum small-signal resistance (in ohms) between the drain and source terminals of a unipolar field effect transistor with a specified gate-source voltage applied to bias the device in the on-state, and at specified drain-source voltage, sourcesubstrate voltage and frequency.

AAE029-005 = frequency AAE376-005 = drain-source voltage AAE381-005 = gate-source voltage AAE388-005 = source-substrate voltage

IEC 60747-8 (2000)

AAE394-005		02	NR33.3ES2	E33
	level min	real	measure	
		\cap		

drain-source off-state resistance R DSoff Rosoff

The minimum dc resistance (in ohms) between drain and source terminals of a field-effect transistor with a specified gate-source voltage to bias the device in the off-state, and specified drain-source voltage and source-substrate voltage.

AAE376-005 = drain-source voltage AAE381-005 = gate-source voltage AAE388-005 = source-substrate voltage

IEC 60747-8 (2000)

AAE396-005	02	NR3	3.3ES2	E45
	level	minTypMax	real	measure
		S		

transfer admittance |Y_fs| $|Y_{fsl}|$

The value as specified by level (minTypMax) of the modulus of the transfer admittance (in S) of a field effect transistor at specified frequency, drain current, gate-source voltage and drain-source voltage.

AAE029-005 = frequencyAAE367-005 = drain current (dc) AAE376-005 = drain-source voltage AAE381-005 = gate-source voltage

AAE400-005	01	NR14	H02
	simple	integer measure Cel	

heatsink temperature @T h $@T_h$

The temperature (in Cel) of the heatsink of a transistor, diode, trigger device, optoelectronic device or IC, as a variable.

AAE401-005	01	X3	A55
	simple	non-quantitative code	;

transistor technology tra technology

Code of the technology to which a transistor belongs.

BIP = bipolar transistor

= field-effect transistor FET

AAE402-005	02 level minTy	NR33.3 /pMax 1	SES2 real measur	E01 re	AAE408-005	01 simple	NR3 real n A	S3.3ES2 neasure	E01
dc current ga	ain	h_FE h _{FE}			emitter curre	nt (dc)	@I_E @I _E		
The value as static ratio of current of a bi	specified by the collecto	r level (mi r current stor in co	nTypMax) of to the base mmon emitte	the	The direct em transistor, as	itter current a variable.	(in A)	of a bipolar	
configuration emitter voltag	at specified e and juncti	collector on tempe	current, colle rature.	ector-	IEC 60748				
AAE271-005 = AAE406-005 = AAE412-005 =	= junction te = collector c = collector-e	emperatur eurrent (de emitter vo	re c) Itage		AAE409-005	01 simple	NR3 real n A	S3.3ES2 neasure	E01
IEC 60748					base current	(dc)	@I_B @I _B		
AAE405-005	02 level max	NR33.3 real mea A	SES2 Isure	E01	The direct bas as a variable.	se current (i	n A) o	f a bipolar transi	istor,
collector cur	rent (dc) m	ax I_ I _C	с		AAE410-005	03 level minTy	NR1 /pMax 1	4 integer measur	E01 e
The maximum bipolar transis	direct colle stor or optoe	ector curre electronic	ent (in A) of a device.	3	small-signal	current gai	n h _{fa}	h_fe	
IEC 60748					T I I		i ire	(· - • • • • •	
AAE406-005	01 simple	NR3 S3 real mea A	3.3ES2 sure	E01	The value as dynamic ratio current of a bi configuration emitter voltag	specified by of the colle ipolar transi at specified e, junction t	ctor cu stor in collec emper	(min LypMax) of irrent to the bas common-emitte tor current, colle ature and freque	the e r ector- ency.
collector cur	rent (dc)	@I_C @I _C			AAE029-005 = AAE271-005 = AAE406-005 =	= frequency = junction te = collector c	empera	ature (dc)	
The direct col transistor or to as a variable.	lector curre ransistor pa	nt (in A) c rt of an e	of a bipolar lectronic devi	ice,	AAE412-005 =	= collector-e	emitter	voltage	
IEC 60748									
AAE407 005	01	ND2 22	E60	E01	AAE412-005	01 simple	NR2 S real n	S3.3 neasure	E06
AAL407-003	level max	real mea A	sure	201	collector-emi	itter voltage	v e @\/₀-	@V_CE	
collector cur	rent peak v	alue I_	СМ		T I - 11				
The maximum	ı peak value	of the co	ollector curre	nt (in	emitter termin variable.	als of a bip	oetwee olar tra	ansistor, as a	and
A) of a bipola	r transistor (during a s	specified dura	ation.	IEC 60748				
AALU20-000 ·									

AAE413-005	02	NR2 S3.3	E06
	level max	real measure	
		V	

collector-emitter voltage V_CE V_CER V_CER

The maximum direct voltage (in V) between collector and emitter terminals of a bipolar transistor at specified resistance between base and emitter terminals.

AAE906-005 = base-emitter resistance

IEC 60748

AAE414-005 02 NR3 S..3.3ES2 E06 level max real measure

 $\begin{array}{c} \text{collector-emitter voltage V_CE} \\ V_{\text{CEO}} \end{array} \quad \quad \text{V_CEO} \end{array}$

The maximum voltage (in V) between collector and emitter terminals of a bipolar transistor at open base terminal.

IEC 60748

AAE415-005	01	NR2 S3.3	E06
	level max	real measure	
		V	

collector-emitter peak voltage V_CESM $$V_{\text{CESM}}$$

The maximum peak collector-emitter voltage (in V) of a bipolar transistor when the base terminal is shortcircuited to the emitter terminal.

IEC 60748

collector-emitter sat voltage V_{CEsat}

The value as specified by level (minTypMax) of the collector-emitter saturation voltage (in V) of a bipolar transistor at specified collector current, base current and junction temperature.

NOTE

This is the voltage between collector and emitter terminals when both the base-emitter and basecollector junctions are forward biased.

AAE271-005 = junction temperature AAE406-005 = collector current (dc) AAE409-005 = base current (dc)

IEC 60748

AAE417-005	01	NR2 S3.3	E06
	level max	real measure	
		V	

collector-base voltage V_CBO V_CBO V_{CBO}

The maximum voltage (in V) between collector and base terminals of a bipolar transistor at open emitter terminal.

IEC 60748

AAE418-005 02 NR3..3.3ES2 E06 level max real measure

difference base-emitter voltage |V_1BE-V_2BE|

V1BE-V2BE

The absolute value of the maximum difference (in V) of the base-emitter voltages of a dual bipolar transistor at specified sum of emitter currents and equal collector-base voltage and at equal collector currents.

AAE408-005 = emitter current (dc) AAE419-005 = collector-base voltage

AAE419-005	01	NR2 S3.3	E06
	simple	real measure	
		17	

collector-base voltage @V_CB @V_{CB}

The direct voltage (in V) between the collector and base terminals of a bipolar transistor, as a variable.

JESD 77B (2000)

AAE420-005 01 NR3..3.3ES2 E09 level minMax real measure F

 $\begin{array}{c} \text{collector capacitance} & \textbf{C}_\textbf{c} \\ & \textbf{C}_c \end{array}$

The value as specified by level (minMax) of the capacitance (in F) between collector and emitter terminals of a bipolar transistor at specified emitter current, collector-base voltage and frequency.

AAE029-005 = frequency AAE408-005 = emitter current (dc) AAE419-005 = collector-base voltage

AAE421-005	01	NR33.	3ES2	E09
	level	minTypMax	real me	asure
		F		

feedback capacitance C_re transfer capacitance C_{re}

The value as specified by level (minTypMax) of the capacitance (in F) measured between collector and base terminals of a bipolar transistor in commonemitter configuration, at specified collector current,

AAE029-005 = frequency AAE406-005 = collector current (dc) AAE412-005 = collector-emitter voltage

collector-emitter voltage, and frequency.

JESD 77B (2000)

AAE422-005	02	NR23.3	E49
	level nom	real measure W	

output powerP_Lload powerPL

The nominal rf output power (in W) of a bipolar transistor at specified collector-emitter voltage, frequency and heatsink temperature.

AAE029-005 = frequency AAE400-005 = heatsink temperature AAE412-005 = collector-emitter voltage

IEC 60050-713 (1998)

AAE424-005	02 NR23.3	E49
	level minTypMax	real measure
	dB	

power gain G_p G_p

The value as specified by level (minTypMax) of the ratio (in dB) of the output power to the input power of a bipolar transistor or wideband amplifier at specified supply voltage, frequency, output power and temperature of a temperature type.

AAE029-005 = frequency AAE102-005 = supply voltage AAE683-005 = temperature type AAE685-005 = temperature AAE955-005 = output power

AAE425-005	02	NR3	3.3ES2	F03
	level r	ninTypMax Hz	real	measure

transition frequency $\begin{tabular}{c} f_T \\ f_T \end{tabular}$

The value as specified by level (minTypMax) of the frequency (in Hz) at which the small-signal current gain has decreased to unity when the output is short-circuited at specified collector current and collector-emitter voltage.

AAE406-005 = collector current (dc) AAE412-005 = collector-emitter voltage

IEC 60748

AAE426-005	02 level minT	NR33.3ES2 ypMax rea	l measu	F03 re	AAE442-00	5 01 simple	M8 non-quantitative co	A56 ode
		112			colour TV t	ransmission	n colour TV trans	
cut-off frequ frequency at	h_fe is -3dE	f_hfe B f _{hfe}			Code of the applying to	type of colou a delay line c	ur television transmis or IC.	ssion
The value as frequency (in small-signal o low frequenci collector-emi	specified b Hz) of a bij current gain ies at specif tter voltage.	y level (minTyp oolar transistor is 3 dB below ied collector c	oMax) of at whic its valu urrent a	f the h the e at nd	MULTI NTSC PAL	= multi-stand = National Te Committee = Phase Alter	ard system elevision System rnating Line	
AAE406-005 AAE412-005	= collector = collector-	current (dc) emitter voltage)		SECAM	- Sequentiar	Colour And Memory	
IEC 60748					AAE457-00	5 01 simple	M3 non-quantitative co	A56 ode
					numeral sy	stem	numeral system	
AAE427-005	01 simple	NR2 S3.3 real measure V		E06	Code of the function of a	numeral sys an IC.	tem of a digital signa	al
base-emitter	[,] voltage	@V_BE @V _{BE}			BIN = bin DEC = dec	ary simal		
The direct vo	ltage (in V)	between the b	ase and		OCT = oct	adecimai al		
emitter termir variable.	nals of a bip	olar transistor	, as a		ISO/IEC 23	32-5 (1999)		
JESD 77B (2	000)							
					AAE458-00	5 02 level nom	NR14 integer measure	Q62
AAE429-005	01 level nom	NR33.3ES2 real measure		E09	number of	innute	1 N in	
		1			number of	inputs	N_m	
varistor cap	acitance	C_var C _{var}			Number of i	nputs of a fu	nction of an IC.	
The nominal specified free	capacitance quency.	in F) of a var	istor at		AAE459-00	5 01	NR14	J01
AAE029-005	= frequency	1				level nom	bit	
AAE430-005	01 level max	NR23.3 real measure		H06	word size word length number of b	vits	N_bit N _{bit}	
energy abso	rbing capa	city max	E_abs	5	The number function of a	[.] of bits per w an IC.	vord applying to a dig	gital
		E _{abs}			ISO 2382-4	(1999)		
The maximur pulse current virtual time to varistor.	n limiting er with specif half-value,	ergy content (ed virtual fron that can be al	in J), of t time ai osorbed	a nd by a		. ,		
	= current (r	سامم)						

AAE125-005 = current (pulse) AAE332-005 = virtual front time AAE333-005 = virtual time to half-value

AAE464-005	01	M3	A56
	simple	non-quantitative code	e

mode of control control mode

Code of the mode of control of a function of an IC.

E	= edge-triggered
---	------------------

- L = level-triggered
- = reset R
- S = set

AAE474-005	02	NR33.3ES2	J01
	level nom	real measure 1	

storage size	storage size
storage capacity	storage size
number of words	

The number of words specifying the data storage capacity of a digital memory function on an IC.

ISO 2382-12 (1988)

REMARKS:

The data storage capacity of a digital memory IC is sometimes referred to as -memory organisationand (number of words) x (number of bits per word) Examples: 256x1 : 256x4 : 1024x8 etc.

AAE487-005	02	МЗ	A56
	simple	non-quantitative code	;

frequency band frequency band

IEC standard abbreviation of the name of the frequency band for the application of an electricelectronic component.

RF	radio frequency	3 kHz		300 GHz
VLF	very low frequency	3	[30 kHz
LF	low frequency	30	L	300 kHz
MF	medium frequency	300	-	3000kHz
HF	high frequency	3	-	30 MHz
VHF	very high frequency	30	[<u>-</u>]	300 MHz
UHF	ultra high frequency	300	L -	3000 MHz
SHF	super high	3	-	30 GHz
	frequency		L	
EHF	extremely high	30	- 1	300 GHz
	frequency			
BB	baseband:		 	
AF	audio frequency	0	-	20 kHz
L	approx	<u> </u>	L	
VF	video frequency	0	- 1	20 MHz
L	approx.		L	
PB	passband		L	
IF	intermediate			
	frequency			

AAE488-005 01 M simple r	3 A56 non-quantitative code					
diode configuration	diode config					
Code of the mode of config diode, rectifier diode, signa capacitance diode.	guration of a breakover al diode or variable					
CAn = n-diodes common CCn = n-diodes common SCn = n-diodes series co SEn = n-diodes separate SIN = single diode	CAn = n-diodes common anode CCn = n-diodes common cathode SCn = n-diodes series connected SEn = n-diodes separated SIN = single diode					
REMARKS: n is marked for the values	2 up to and including 9.					
AAE489-005 01 simple	M3 A55 non-quantitative code					
diode technology	diode techn					
Code of the type of techno	ology of a diode.					
AVA = avalanche diode PIN = pin diode SCH = Schottky diode TUN = tunnel diode						
AAE490-005 03 I simple	M8 A56 non-quantitative code					
modulation method	modulation					
IEC standard abbreviation for the application of an electron of an electron of an electron of an electron of a statement.	of the type of modulation ectric-electronic					
AM = amplitude mo ASK = amplitude shi DM = *delta modula DSB = *double sidek DSBSC = *double sidek	odulation ift keying ation band band suppressed					

	carrier
FM	= frequency modulation
FSK	= frequency shift keying
ISB	= *independent sideband
MPSK	= *multiple phase shift keying
n-FSK	= *n-condition frequency shift
	keying
PAM	= pulse amplitude modulation
РСМ	= pulse code modulation
PDCM	= *differential pulse code
	modulation
PDM	= *pulse duration modulation
PDSK	= *differential phase shift keying
PFM	= *pulse frequency modulation
PM	= phase modulation
PPM	= *pulse position modulation
PSK	= phase shift keying
РТМ	= pulse time modulation
QAM	= *quadrature amplitude modulation
QPSK	= *quadrature phase shift keying
SSB	= *single sideband

= *vestigial sideband VSB

AAE494-005	02 N simple	/35 string	A56	AAE500-005	01 simple	NR33.3ES2 real measure A	E01
nearest conv	entional ty	pe near conv typ	be				
Type number comparable el	of the neare lectrical spe	est conventional type, ecification, as the surf	with ace-	working curr	ent	@ I_Z @Iz	
mounted diod	e or transis	tor under consideratio	n.	The direct wo continuously regulator dioc	rking currer to a voltage le, as a vari	nt (in A) applied reference diode or vc able.	ltage
AAE496-005	01	NR33.3ES2	E09	U U			
	ievei mini y	/piviax real measu F	re	AAE502-005	02	NR23.3	E09
		0.4			level minTy	/pMax real measu	re
diode capaci	tance	C_a Cd				1	
				capacitance	ratio	C_d1/C_d2	
The value as s	specified by n E) betwee	<pre>v level (minTypMax) o en the terminals of a c</pre>	f the linde			C_{d1}/C_{d2}	
or optoelectro and frequency	nic device a	at specified reverse vo	oltage	The value as capacitance r diode, within	specified by atio of a tun a reverse vo	/ level (minTypMax) o ing variable capacitar pltage range, specified	f the nce d bv
AAE029-005 = AAE335-005 =	= frequency = reverse vo	oltage		the reverse ve frequency.	oltages (V ₁ ;	and V_2), and at specif	ied
IEC 60747-3 (1985)			AAE029-005 = frequency AAE961-005 = voltage V_1			
AAE497-005	01 simple	NR33.3ES2 real measure F	E09	$\frac{C_{d} 1 \operatorname{at}(V_{R} = V)}{C_{d} 2 \operatorname{at}(V_{R} = V)}$	$\left(\frac{V_{1}}{V_{2}}\right)$	_2	
diode capaci	tance	@C_d @C _d		AAE503-005	01 simple	M3 non-quantitative code	A56
The capacitan diode, as a va	ice (in F) of iriable.	a variable capacitand	ce	EHT stack ap	oplication	EHT stack appl	
NOTE The specified	diode capa	citance has to be adju	usted	Number of ph rectifier diode	ases of the stack.	application mode of a	n EHT
with the revers	se voltage.			1 = sinal	e-phase		
IEC 60747-3 (1985)			2 = two-p 3 = three	phase -phase		
AAE499-005	01 simple	NR23.3 real measure V	E06	AAE505-005	01 simple	M3 non-quantitative code	A56 Ə
forward volta	ge	@V_F		rectifier diod	le applicati	on rec dio appl	
on-state volta	ge	@V _F		Code of the a	pplication o	f a rectifier diode.	
The forward ve optoelectronic	oltage (in V : device, as) across a diode or a variable.		EFF = EHT =	efficiency di extra-high to	iode ension rectifier diode	
IEC 60747-2 (2000)				Ŭ		

AAE506-00)5 01 simple	M8 non-quantitative code	A56	AAE509-005	03 simple	M3 non-quantitative code	A56
switching	function	switch function		U/I category		U/I category	
Code of the switching function of the contact assembly of a relay or switch.				IEC standard code of the category of contact voltage and contact current of a relay.			
NOTE Not all valu	ies apply to sv	witches.		NOTE A contact ma one category.	y have the c	characteristics of more	than
B BB BBM BM	= B break = G break-bre = H break-bre = C break-ma	(on-off) eak eak-make ike (change-over))	0 = category 1 = category	y 0 contacts y 1 contacts	(0-30 mV; 0-10 mA) (30 mV-60 V; 10 -100 mA)	
BMB BMM BNB DB	= E break-ma = L break-ma = M two-way = Y double br	ike-break ke-make break normally closed eak		2 = category3 = category	2 contacts3 contacts	(60-250 V; 100 mA-1 A) (250-600 V; 1 -100 A)	I
DBDM-T	= W DB doub (terminal on a	le make armature)		AAE510-005	02 simple	X3 non-quantitative code	A56
DM DM-T	(terminal on a = X double m	armature) ake		chargeability	/ type	chargeability	
M MB MBM	(terminal on a = A make = D make-brea = I make-brea	armature) (off-on) eak ak-make		PRI = prima SEC = seco	ary battery (ndary batter	single charge) ry (rechargeable)	
MMB MNM	= J make-ma = K two-way	ke-break make normally open		AAE511-007	02 simple	X8 non-quantitative code	A56
AAE508-00)5 01 simple	M8 non-quantitative code	A56	impedance t	ype mpedance tv	impedance type	
sealing	ompio	sealing		CAP = capa IND = induc	citive (whip)) eptor)	

RES = resistive (tuned dipole)

rated operational voltage (ac) U_{cont(ac)}

members before closing or after opening.

of a switch or relay at resistive load.

E06

NR3..3.3ES2

U_cont(ac)

level max real measure V

The maximum operating rms switching voltage (in V)

The rated voltage is the voltage between the contact

AAE512-005 02

NOTE

contact voltage (ac)

IEC 60127-1 (1988)

IEC standard code of the sealing of a relay.

RT0 = non-sealed contacts

- RTI = sealed contacts
- RTII = sealed relays

AAE513-005	02 level max	NR33.3ES2 real measure V	E06	AAE519-005	01 level nom	NR3 S3.3ES2 real measure V	E06
limiting containsulation volt	act voltage age	U_cont(lim) U _{cont(lim)}		nominal volt	age	V V	
The maximum across open c	i dc voltage contacts.	(in V) of a switch or r	elay	The nominal	voltage (in V	/) of a lamp or fuse.	
IEC 60947-1 ((2004)			REMARKS: IEC 60432-1 If, for special	(1999) : reasons, lai	mps are marked with	dual
AAE515-005	03 level max	NR14 integer measure A	E01	of the voltage	range.		mean
contact curre	ent (ac)	I_cont(ac) I _{cont(ac)}		AAE521-005	03 level nom	NR33.3ES2 real measure A	E01
The maximum switch or relay	rms switch y at resistive	ing current (in A) of a e load.		nominal curr	ent	l_nom I _{nom}	
IEC 60947-1 ((2004)			The nominal of frequency and	current (in A d at the nom	 of a lamp at specifient in a lamp at spec	ed
AAE517-005	01	NR33.3ES2	E22	AAE029-005	= frequency		
	level miNol	Max real measu H	re	IEC 60598-1	(2003)		
inductance		L		AAE522-005	02 simple	M3 non-quantitative cod	A58 e
The value as inductance (in motor or trans	specified by H) of an in former at sj	r level (miNoMax) of the ductive antenna, indupecified frequency.	he ictor,	mounting-ca	p code	сар	
AAE029-005 =	= frequency			Code of the n	nounting cap	o of a lamp.	
REMARKS: For antennas,	f = 10 kHz.			BAY = bayo LEA = leads PIN = pin SCR = screw	net s		
AAE518-005	03 level miNol	NR33.3ES2 Max real measu 1	E46 re	AAE523-005	01 level nom	NR33.3ES2 real measure J	H06
quality factor	r	Q Q		Joule-integra	al	(I**2)*t I^2t	
The value as a quality factor specified frequenci	specified by of an induct uency.	r level (miNoMax) of t ive antenna or induct	he or at	The nominal v current over t fuse.	value of the he operating	integral of the square g time interval (in J) o	of the f a
AAE029-005 =	= frequency						

NOTES

1 The operating time is the sum of the pre-arcing time and the arcing time. 2 When considered from point of view of the circuit protected by a fuse, the value of the Joule-integral over the operating time of the fuse is referred to a specific energy, i.e. the energy released as heat in 1 Ω of circuit resistance.

IEC 60050-441, amendment 1 (2000)

AAE524-005	02 simple	M3 non-quantitative code	A56	
speed		speed		
IEC standard time/current c	code denc haracteris	ting the relative pre-arc tic of a fuse.	ing	
F = quick FF = very M = medi T = time- TT = long	= quick acting = very quick acting = medium = time-lag = long time-lag			
IEC 60127-1 ((1988)			
AAE525-005	02 level max	NR33.3ES2 real measure A	E01	
rated current	t	l_n In		
The maximum of a fuse at sp	i continuou pecified an	us dc or ac rms current (nbient temperature.	(in A)	
AAE014-005	= ambient	temperature		
IEC 62271-10	0 (2001)			
AAE527-005	01 level miNo	NR33.3ES2 oMax real measur Hz	F03 e	
centre freque	ency	f_c f _c		
The value as specified by level (miNoMax) of the centre frequency (in Hz) of a band pass or band stop filter.				

AAE528-005	02 simple	NR2 S3.3 real measure dB	F09
response lev	vel	@L_resp @L _{resp}	

The value (in dB) representing the variation of the level on a point of the response curve of a quantity of a filter or delay line compared with its maximum level, as a variable.

IEC 60050(806) (1996) derived

AAE529-005	03	NR23.3	E06
	level	miNoMax	real measure
		V	

open-circuit voltage V_open V_open

The value as specified by level (miNoMax) of the open-circuit voltage (in V) of a battery.

AAE530-005	02 level nom	NR23.3 real measure Ah	E02
nominal capa	acity	Ah Ah	

The nominal capacity (in Ah) of a battery.

AAE531-005	01	M3	A55
	simple	non-quantitative code	e

primary electrochemical system pri elchem sys

IEC standard code of the electrochemical system of a primary battery.

- Α = oxygen - zinc -ammonium/zinc chloride
- В = carbon monofluoride -lithium-ammonium/zinc chlor.
- С = manganese dioxide - lithium-organic electrolyte
- = manganese dioxide zinc -alkali metal L hydroxide
- Μ = mercuric oxide - zinc -alkali metal hydroxide
- = mercuric oxide + MnO2- zinc -alkali metal Ν hydroxide
- = oxyge zinc -alkali metal hydroxide Ρ
- S = silver oxide - zinc -alkali metal hydroxide = silver oxide divalent- zinc -alkali metal Т hydroxide
- = manganese dioxide Х - zinc -ammonium/zinc chloride

IEC 60086-1 (2000)

REMARKS:

Code	anode	cathode	electrolyte
Х	manganese	zinc	ammonium/zinc
	dioxide		chloride
A	oxygen	zinc	ammonium/zinc
			chloride
В	carbon	lithium	ammonium/zinc
	monofluoride		chloride
С	manganese	lithium	organic electrolyte
	dioxide		
L	manganese	zinc	alkali metal hydroxide
	dioxide		
М	mercuric	zinc	alkali metal hydroxide
	oxide		-
Ν	mercuric	zinc	alkali metal hydroxide
	oxide +		-
	MnO2		
Р	oxygen	zinc	alkali metal hydroxide
S	silver oxide	zinc	alkali metal hydroxide
Т	silver oxide	zinc	alkali metal hydroxide
	divalent		

AAE532-005	02	M8	A55
	simple	non-quantitative code	Э

secondary electrochemical system sec elchem sys

Code of the electrochemical system of a secondary battery.

AgCd	= silver	-cadmium	ı -alkaline
AgZn	= silver	-zinc	-alkaline
NiCd	= nickel	-cadmium	-alkaline
NiFe	= nickel	-iron	-alkaline
NiZn	= nickel	-zinc	-alkaline
Pb	= lead	-acid	-sulphuric acid

REMARKS:

Code	anode	cathode	electrolyte
NiCd	nickel	cadmium	alkaline
AgZn	silver	zinc	alkaline
Pb	lead	acid	sulphuric acid
NiFe	nickel	iron	alkaline
AgCd	silver	cadmium	alkaline
NiZn	nickel	zinc	alkaline

AAE533-005 02 E44 NR3..3.3ES2 level nom real measure Ω

input impedance

|Z_in| |Z_{in|}

The nominal value of the modulus of the input impedance (in ohms) of a filter or microphone at specified frequency.

AAE029-005 = frequency

IEC 60050(131) (2002)

AAE534-005	01 NR3.	.3.3ES2	F03
	level minMax Hz	real meas	ure
bandwidth	В		

The value as specified by level (minMax) of the bandwidth (in Hz) of a filter or delay line at specified response level.

В

AAE528-005 = response level

IEC 60050(702) (1992)

61360-4 © IEC:2005(E)

AAE540-005	01 level max	NR33.3ES2 real measure A	E01	AAE544-005	02 level nom	NR33.3ES2 real measure s	Т07
current rms		l_rms I _{rms}		phase delay	time	t_del t _{del}	
The maximum electronic or e	rms curren electromech	t (in A) of an electric- anical component at		The nominal	phase delay	time (in s) of a d	elay line.
specified amb	lient temper	ature.		IEC 60050(5	5) (1970)		
AAE014-005 :	= ambient te	emperature		NOTE The phase de	elay time is t	he ratio of the to	tal phase
AAE541-005	01 level nom	NR33.3ES2 real measure Hz	F03	frequency in	Hz.		0
frequency		f f		AAE545-006	02 simple	X8 non-quantitative	A56 code
The nominal f	requency (ii	h Hz) of a delay line.		optoelectror function	nic device fu	unction o	pt
AAE542-005	01	M3	A56	Code of the f device belon	function to w gs.	hich an optoelect	ronic
delay line ap Code of the re	simple plication	del appl del appl	v	IMAGE = PHC = PHE = PHS =	Image picku photocouple photoemitte	ip devices er r r	
line.			,	150 00747 5	(1000)		
CTV = colou VCR = video	r television cassette re	corder		IEC 60747-5	(1992)		
VLP = video	long play			AAE546-005	03 level max	NR33.3ES2 real measure A	E01
AAE543-005	02 level miNol	NR33.3ES2 Max real measur s	T07 e	forward cur	rent limit	I_Flim I _{Flim}	
delay time		\$t T		The maximur through a dic device, in the	n limiting dir ode, or diode e forward dire	ect current (in A) part of an optoe ection.	flowing lectronic
The value as delay time (in frequency.	specified by s) of a filter	r level (miNoMax) of th r or delay line at specil	e fied	IEC 60747-2	(2000)		
AAE029-005 -	= frequency			AAE547-005	01	NR2 S3.3	E06
IEC 60050(35	1) (1998)				simple	real measure V	
				supply volta	ige	@V_B @V _B @V _{DD} @V _{CC}	

The dc supply voltage (in V) applied to an optoelectronic device via an external circuit, as a variable.

AAE548-005	02	NR23.3	E01
	level	minTypMax	real measure
		1	

current transfer ratio CTR CTR Ic/IF

The value as specified by level (minTypMax) of the dc transfer ratio of the collector current and the diode forward current in a photocoupler at specified diode forward current, collector-emitter voltage and junction temperature.

AAE271-005 = junction temperature AAE274-005 = forward current AAE412-005 = collector-emitter voltage

JESD 77B (2000)

AAE550-005	02 level min	NR33.3ES2 real measure V	E06
isolation vol	tage min	V IORM	

The minimum guaranteed dc test voltage (in V) across the shorted diode leads and the shorted transistor leads that a photocoupler must withstand for a specified duration.

AAE028-005 = duration

IEC 60747-5 (1992)

AAE551-005 02 NR3 S..3.3ES2 E06 level max real measure

collector-emitter sat voltage V_CEsat V_CEsat

The maximum guaranteed collector-emitter saturation voltage (in V) of a photocoupler at specified forward current, collector current and junction temperature.

AAE271-005 = junction temperature AAE274-005 = forward current AAE406-005 = collector current (dc)

AAE553-005	03	NR33.3ES2	Т07
	level nom	real measure	
		6	

turn-off time t_off

The nominal time (in s) elapsing between the end of the input pulse (90 % of its maximum value) and the moment when the corresponding output signal of a photocoupler falls to 10 % of its maximum value, at specified forward current, collector current, supply voltage, load resistance and junction temperature.

AAE212-005 = load resistance AAE271-005 = junction temperature AAE274-005 = forward current AAE406-005 = collector current (dc) AAE547-005 = supply voltage

AAE554-005	02 level nom	NR33.3ES2 real measure	Т07
		S	

turn-on time t_on

The nominal time (in s) elapsing between the start of the input pulse (10 % of its maximum value) and the moment when the corresponding output signal of a photocoupler is at least 90 % of its maximum value, at specified forward current, collector current, supply voltage load resistance and junction temperature.

AAE212-005 = load resistance AAE271-005 = junction temperature AAE274-005 = forward current AAE406-005 = collector current (dc) AAE547-005 = supply voltage

AAE555-005	01	X3	A56
	simple	non-quantitative code	Э

photoemitter function PHE function

Code of the function type to which a photoemitter belongs.

IRD = infrared emitting diode LAS = laser LED = LED

IEC 60747-5 (1992)

AAE556-005	02	NR33.3ES2	L03
	level nom	real measure	
		m	

wavelength at peak emission \$I_peak peak-emission wavelength λ_{peak}

The nominal wavelength (in m) at which the spectral radiant intensity is maximum at a specified diode forward current and ambient temperature.

AAE014-005 = ambient temperature AAE274-005 = forward current

IEC 60747-5 (1992)

AAE557-005	02 level nom	NR33.3ES2 real measure m	L03
spectral ban	dwidth	\$D\$I	

spectral bandwidth

The nominal wavelength interval (in m) at which the responsivity of a photosensor or intensity of a photoemitter is not less than half of its maximum value at specified ambient temperature.

Δλ

AAE014-005 = ambient temperature

REMARKS:

Intensity applies to photoemitters; responsivity, to photosensitive devices.

AAE558-005	01 level nom	NR14 integer me deg	T01 easure
beamwidth b half-value bea	etween 50 am angle	% values θ ₁ /2	\$q_1/2
		$\alpha_{50\%}$	

The nominal angle of the beamwidth (in deg) between the half value directions of the intensity of a photo-emitter or responsivity of a photosensor.

JESD 77B (2000)

REMARKS:

Intensity applies to photoemitters; responsivity, to photosensors.

61360-4 © IEC:2005(E)

AAE560-005	02 simple	M35 non-quantitative code	A91
package colo envelope colo	our	package colour	
Name of the o	colour of a L	ED or IRED package.	
blue-diff = colourless = green-clear= green-diff = red-clear = red-diff = yellow-clear= yellow-diff =	blue-diffuse colourless-c green-clear green-diffus red-clear red-diffused yellow-clea yellow-diffus	d Iear ed r sed	
REMARKS: For the mater the emitting c AAE564-005.	ials used ar ondition, se	nd the resulting colours e AAE563-005 and	s in
	00		
AAE301-003	level nom	NR33.3ES2 real measure W	L10
radiant outpuradiant flux	level nom	NR33.3ES2 real measure W \$f_e P _{out}	L10
radiant outpur radiant flux The nominal r photoemitter temperature.	level nom ut power radiant outp at specified	NR33.3ES2 real measure W \$f_e Φ _e P _{out} ut power (in W) of a la wavelength and case	L10 ser
radiant outpur radiant flux The nominal r photoemitter temperature. AAE260-005 AAE569-005	level nom ut power radiant outp at specified = case temp = wavelengt	NR33.3ES2 real measure W \$f_e Φ _e P _{out} ut power (in W) of a la wavelength and case	L10
radiant outpur radiant flux The nominal in photoemitter temperature. AAE260-005 AAE569-005 IEC 60306-1	level nom ut power radiant outp at specified = case temp = wavelengt (1969)	NR33.3ES2 real measure W \$f_e Φ _e P _{out} ut power (in W) of a la wavelength and case perature h at peak value	L10
radiant outpur radiant flux The nominal in photoemitter temperature. AAE260-005 AAE569-005 IEC 60306-1 AAE562-005	<pre>uz level nom ut power radiant outp at specified = case temp = wavelengt (1969) 01 simple</pre>	NR33.3ES2 real measure W \$f_e Φ _e P _{out} ut power (in W) of a la wavelength and case terature h at peak value M17 string	L10 ser A56

, 1_{v(cl)}

Code of a luminous-intensity class of a LED.

AAE563-005	01 simple	M17 non-quantitative code	A57 9	AAE566-005	03 simple	X3 non-qu	antitative code	A56
LED crystal r	naterial	LED xtal mat		radiation typ	е	radiati	on type	
The abbreviat photoemitter.	ed name of	the crystal material o	fa	Code of the ty photosensor i	/pe of optica esponds.	al radiat	ion to which a	
GaAIAs GaAs GaAsP GaAsP/GaP		= GaAlAs = GaAs = GaAsP = GaAsP/GaP		IR = infrar UV = ultrav VIS = visibl	ed radiatior violet radiati e radiation	า on		
GaP GaP(ZnO) GaPAs		= GaP = GaP(ZnO) = GaPAs		IEC 60050(84	5) (1987)			
REMARKS: For the result	ing colours,	see AAE564-005.		AAE567-005	01 level min	NR33 real me A/W	.3ES2 easure	E01
AAE564-005	01 simple	M17 non-quantitative code	A91	spectral sen	sitivity	s_\$I s _λ S _R		
LED light col light colour	our	light colour		The minimum radiant power	ratio of the (in A/W), o	photoci f a phot	urrent to the ind osensor at spe ambient	cident cified
Code of the contract IRED.	olour of the	light emitted by a LEE) or	temperature.		ge and		
green hyper-red infrared orange		= green = hyper-red = infrared = orange		AAE014-005 AAE335-005 AAE569-005	= ambient te = reverse vo = wavelengt	emperat oltage th at pea	ure ak value	
standard-red super-red ultra-red yellow		= standard-red = super-red = ultra-red = yellow		AAE568-005	02 level nom	NR33 real me m	. 3ES2 easure	L03
REMARKS: For the releva	int emitting	material, see AAE563	-005.	wavelength a peak-respons	at peak resp e waveleng	th	\$I_peak λ _{peak}	
AAE565-005	02	NR33.3ES2	L29	The nominal v luminous sense specified reve	wavelength sitivity of a p erse voltage	(in m) a photose and am	t which the spe nsor is maximu bient temperat	ectral im at ure.
	ievei min	cd		AAE014-005 AAE335-005	= ambient te = reverse vo	emperat oltage	ure	
luminous inte	ensity	Ⅰ_v I _v						
The minimum specified forw	luminous ir ard current	itensity of a LED (in co and ambient tempera	d) at a ture.	AAE569-005	02 simple	NR33 real me m	.3ES2 easure	L03
AAE014-005 = AAE274-005 =	= ambient te = forward cu	emperature urrent		wavelength a peak-waveler	at peak valu igth	ιe @λ _p	@\$I_p	
IEC 60306-1 ((1969)			The waveleng photoemitter variable.	jth (in m) of or responsiv	the inte vity of a	nsity of a laser photosensor, a	is a

AAE564-005	01 simple	M17 non-quantitative code	A91
LED light col	our	light colour	

green	= green
hyper-red	= hyper-red
infrared	= infrared
orange	= orange
standard-red	= standard-red
super-red	= super-red
ultra-red	= ultra-red
yellow	= yellow

AAE565-005	02 level min	NR33.3ES2 real measure cd	L29
luminous int	ensity	I_v Iv	

AAE570-005	02 simple	NR33.3ES2 real measure W/m ²	L16	AAE573-005	01 level typ	NR33.3ES2 real measure m	L03
irradiance irradiance E		@E_e @E _e		spectral resp	onse lowei	r limit \$l_min λ _{min:}	
Irradiance app variable.	plied to a ph	otosensor (in W/m²), a	as a	The typical lov above which a	wer limit of t an infrared r	the wavelength (in m) adiation photosensor g	gives
ISO 31-6 (199	92)			at a specified temperature.	supply volta	age and ambient	ιραι,
AAE571-005	01 level nom	NR33.3ES2 real measure	E06	AAE014-005 = AAE547-005 =	= ambient te = supply vol	emperature tage	
		V/VV		REMARKS			
responsivity voltage respo	nsivity	responsivity responsivity		For the lower range, see als	spectral res o AAE574-0	ponse, i.e. for the tota 005.	ıl
The nominal r	atio of the r	ms signal to the value	of				
the incident, o infrared radia wavelength, o	tion photose thopping free	liant power (in V/W) o nsor at specified quency and ambient	fan	AAE574-005	01 level typ	NR33.3ES2 real measure m	L03
temperature.				spectral resp	onse uppe	r limit \$I max	
AAE014-005 =	= ambient te = wavelengt	mperature h at peak value		opoonanioop		λ_{max}	
AAE935-005	= chopping f	requency		The typical up below which a	oper limit of an infrared r at least 90	the wavelength (in m) adiation photosensor g % of the maximum out	gives
AAE572-005	02 level nom	NR3 S3.3ES2 real measure W/(Hz ⁻¹ /2)	L10	at a specified temperature.	supply volta	age and ambient	

NEP

NEP

The nominal equivalent noise power (NEP) of an

infrared radiation photosensor (in $W/(Hz^{-1}/2)$, at

specified wavelength, chopping frequency and

AAE569-005 = wavelength at peak value

AAE935-005 = chopping frequency

equivalent noise irradiation

noise equivalent power

AAE934-005 = bandwidth

IEC 60050(531) (1974)

bandwidth.

AAE014-005 = ambient temperature AAE547-005 = supply voltage

REMARKS: For the lower spectral response, i.e. for the total range, see also AAE573-005.

AAE575-005	02 level nom	NR33.3ES2 real measure m	Т03
element sep a element gap	aration	s_gap S _{gap}	
The nominal elements of a	m) between the sen adiation photosenso	sitive r.	

AAE576-005	01 level nom	NR33.3ES2 real measure m	Т03
element leng	lth	l_elem I _{elem}	

The nominal length (in m) of the sensitive element(s) of an infrared radiation photosensor.

AAE577-005	01 level nom	NR33.3ES2 real measure m	Т03	AAE584-005	level minM	01 ax V
element brea	dth	b_elem b _{elem}		grid 2 voltag	e for cut-of	f V _{g2(co)}
The nominal b element(s) of	oreadth (in r an infrared	n) of the sensitive radiation photosenso	or.	The value as direct voltage for visual exti display tube a	specified by (in V) on gr nction of the	/ level rid 2 wi e focus cathor
AAE578-005 grid 1 voltage control grid vo	01 level minMa e for cut-of oltage	NR2 S3.3 ax real mease V f V_g1(co)	E06 ure	REMARKS: Adjustment p With all catho increased to a becomes just	rocedure: odes at maxi a value at w visible. The	mum v hich or
The value as a direct voltage cathode, for v a monochromo voltage.	specified by (in V), on g isual extinc e display tu	r level (minMax) of th rid 1 with respect to tion of the focused ra be at nominal grid 2	e the aster of	AAE585-005	guns are d become visil 01 level nom	ecreas ole. NR3 real m
IEC 60050 (53	31) (1974)					%
REMARKS: Applies to grid	l-driven disi	olav tubes.		focusing vol	tage	V_foc V _{foc}
AAE579-005	01 level nom	NR23.3 real measure	E06	The nominal of anode voltage focusing of a	direct voltag e, on grid 3 colour displ	ie (in % with re ay tube
heater voltag	e	V V_f V _f		AAE586-005	01 level minM	NR3 ax V
The nominal r heater termina	ms ac or do als of an ele	voltage (in V) acros ectron tube.	s the	focusing vol	tage	V_foc
IEC 60050 (53	31) (1974)			The value as direct voltage	specified by (in V), on g	/ level Irid 4 w
AAE580-005	01 level nom	NR33.3ES2 real measure	E01	for focusing c	if a monochi	rome d
heater curren	ıt	A I_f		AAE588-005	01 level nom	NR1 intege deg
The nominal r	ms ac or do	current (in A) flowin	g	deflection ar	ngle	\$a_de α _{defl}
IEC 60050 (53	31) (1974)			The nominal a diagonal of the display tube.	angle of def ie useful scr	lection een us
AAE581-005	01 level max	NR23.3 real measure m	Т03			
overall length	ı	I_o				

The maximum overall length (in m) of a product.

01	NR2 S3.3	E06
ix	real measu	re

V_g2(co)

(minMax) of the vith respect to grid 1 sed spot of a colour de voltage.

voltage, V_{g2} is one of the colours cathode voltages of sed until the other

AAE585-005	01 level nom	NR33.3ES2 real measure %	E06
focusing vol	tage	V_foc V _{foc}	
The nominal of anode voltage focusing of a	direct voltag e, on grid 3 colour displ	e (in %) relative to the with respect to grid 1, ay tube.	for

AAE586-005	01 NR33.3ES2		E06	
	level mi	nMax V	real mea	asure
focusing vol	tage	V foc		

(minMax) of the with respect to grid 1, lisplay tube.

AAE588-005	01	NR14	T01
	level nom	integer measure	
		deg	

efl

(in deg) on the sed to identify a

AAE589-005	01	NR23.3	Т03
	level nom	real measure	
		m	

d_neck d_{neck}

neck diameter

The nominal outer diameter (in m) of the neck of a display tube.

AAE590-005	01	NR33	3.3ES2	E06
	level miN	loMax	real mea	sure
		V		

anode voltageV_afinal accelerator voltageVa

The value as specified by level (miNoMax) of the direct voltage (in V) on the anode of a display tube.

REMARKS:

All voltages relative to grid 1 (cathode drive) or to cathode (grid drive).

AAE591-005	01 NR2 S3.3		E06	
	level minMax r		real measure	
	١.	/		

cathode voltage for cut-off $V_k(co)$ cathode voltage $V_{k(co)}$

The value as specified by level (minMax) of the direct voltage (in V), on the cathodes with respect to grid 1, for visual extinction of the focused spot of a colour display tube.

REMARKS:

See AAE584-005 for the adjustment procedure.

AAE592-005	01 level nom	NR14 integer measure cm	Т03
screen diago	onal	d_scr d _{scr}	

The nominal projected length of the useful screen diagonal (in cm) of a display tube, used as product identification.

REMARKS:

In the Pro Electron type designation code, for TV picture tubes and monitor tubes, the screen diagonal corresponds with the second (number) symbol, consisting of a two or three-digit number. For other display tubes see AAE595-005.

AAE593-005	01 level min	NR33.3ES2 real measure m	Т03
useful scree	n horizonta	lb_scr b _{scr}	
The minimum screen measu display tube.	projected w ured along tl	vidth (in m) of the usef he horizontal axis of a	ul
AAE594-005	01 level min	NR33.3ES2 real measure m	Т03
useful scree	n vertical	h_scr h _{scr}	
The minimum projected height (in m) of the useful screen measured along the vertical axis of a display tube.			
AAE595-005	01 level nom	NR14 integer measure cm	Т03
tube size (cn	n)	d_gls(c) d _{gls(c)}	
The nominal of glass envelop identification.	overall outer be of a displa	r diagonal (in cm) of th ay tube, used as produ	ie uct
REMARKS: In the Pro Electron type designation code for display tubes other than TV picture and monitor tubes, the face diagonal (in cm) corresponds with the first number.			
For TV picture tubes and monitor tubes see AAE592- 005.			
AAE596-005	02 level nom	NR23.3 real measure %	L13
glass transmission glass trans light transmission glass trans			

The nominal quantity of visible light (in %) relative to the quantity of generated light, transmitted through the screen of a display tube.

REMARKS:

Measured at screen centre.

AAE598-005	01	M8	A58
	simple	non-quantitative code	9

base type base type

EIA code of the base type of a display tube.

B10-277	= B10-277
B12-246	= B12-246
B12-262	= B12-262
B7-208	= B7-208
B8-228	= B8-228
B8-274	= B8-274
B8-288	= B8-288
B8H	= (neo-eightar/IEC67)
E7-91	= E7-91

AAE603-005 01 NR2 S..3.3 E06 level minMax real measure

cathode voltage for cut-off $$V_k(co)$$

The value as specified by level (minMax) of the direct voltage (in V), on the cathode with respect to grid 1, for visual extinction of the focused raster of a monochrome display tube at minimum grid 2 voltage.

REMARKS:

Applies to cathode-driven display tubes.

AAE605-005	01	M3	A91
	simple	string	

phosphor code

phosphor code

Pro Electron code of the phosphor type(s) of a display tube. REMARK: For codes see table D in naming document.

REMARKS:

1. In the Pro Electron type designation code, the phosphor code corresponds with the fifth (letter) symbol, consisting of a single letter or a two-letter combination.

2. The table gives fluorescent and phosphorescent colours, CIE colour coordinates, persistence and comparable EIA designation.

3. The FIRST LETTER denotes the colour of the fluorescence (or phosphorescence in the case of very long persistence screens) according to the regions of the Kelly Chart; the fluorescent colour is that seen during continuous or pulsating excitation (e.g. raster display) and the phosphorescent colour is that seen after excitation has ceased.

The SECOND LETTER denotes other specific differences in screen properties.

4. For colour TV picture tubes, the phosphor is defined by the letter X or the letters XX. For colour monitor tubes, the phosphor (usually tricolour) may be defined by the letter(s) X, XX or some other two-letter combination, excluding the letters I and O.

For monochrome TV picture tubes, the phosphor is defined by the letters WW.

For monochrome monitors, the phosphor may be defined by the letters WW or some other two-letter combination, excluding the letters I and O.

AAE606-005	01	M3	A56
	simple	non-quantitative	code

application code appl code

Pro Electron/EIA code indicating the primary application of a display tube.

- A = TV picture tube
- D = oscilloscope tube, single trace
- E = oscilloscope tube, double trace
- F = radar display tube
- L = storage display tube
- M = monitor tube
- P = projection tube
- Q = flying spot scanner
- R = recording tube with fibre optic output

Pro Electron (1988)

REMARKS:

In the Pro Electron type designation code, the application code corresponds with the first (letter) symbol and shall consist of a single letter.

AAE607-005	01	NR33.3ES2	E22
	level nom	real measure	
		Н	

line coil inductance L_H

The nominal inductance (in H) of the line deflection coils of a deflection unit, connected in parallel.

REMARKS:

The inductance may include a series-connected loss coil.

AAE608-005	01 level nom	NR33.3ES2 real measure H	E22
field coil ind	uctance	L_V Lv	

The nominal inductance (in H) of the field deflection coils of a deflection unit, connected in series.

REMARKS:

If connected in parallel the inductance is 4 times lower.

AAE609-005	01 level nom	NR33.3ES2 real measure Ω	E33
line coil resi	stance	R_H	

 R_{H}

The nominal dc resistance (in ohms) of the line deflection coils of a deflection unit, connected in parallel.

REMARKS:

The resistance may include the resistance of a series connected loss coil.

AAE610-005	01	NR33.3ES2	E33
	level nom	real measure	
		Ω	

R_V Rv

field coil resistance

The nominal dc resistance (in ohms) of the field deflection coils of a deflection unit, connected in series.

REMARKS:

If connected in parallel the resistance is 4 times lower.

AAE611-005	02 level nom	NR33.3ES2 real measure A	E01
line deflectio	on current	I_H	

 I_{H}

The nominal peak-to-peak current (in A) to deflect the spot on the screen of a display tube assembly from edge to edge horizontally, at nominal anode voltage.

AAE612-005	02	NR33.3ES2 E			
	level nom	real measure			
		А			

field deflection current $\begin{array}{c} I_V\\ I_V\end{array}$

The nominal peak-to-peak current (in A) to deflect the spot on the screen of a display tube assembly from edge to edge vertically, at nominal anode voltage.

AAE616-005	02	NR14		
	level	miNoMax	integer measure	
		K		

thermal sensitivity index B25/75 B_25/75 value B_{25}/75

The value as specified by level (miNoMax) of the mean temperature sensitivity index (in K) of an NTC thermistor between 25 and 75 Cel.

IEC 60539 (2002)

AAE617-005	01 level min	NR33.3ES2 real measure Ω/s	E33	
I DR recover	v rato	recovery rate		

LDR recovery rate recovery rate recovery rate

The minimum recovery rate of the resistance of a light dependent resistor (in Ω /s) from light to dark, after a specified duration, initial illuminance level and colour temperature.

AAE028-005 = duration AAE623-005 = colour temperature AAE624-005 = illuminance

AAE618-005	01 simple	M8 non-quantitative code	A56	AAE621-005	01 level max	NR23.3 real measu dB
PTC applicat	ion	PTC application		ragiotar naio	a inday	E roo
Code of a PT	C thermisto	r identifying its applica	ition.	current-noise	index	F_Ies F _{res}
DEGA = HEAT = MOTOR = PROT =	degaussing heating eler motor starti overload pr	colour TV tubes (dual ment ng otection	PTC)	The maximum decade (in dE a fixed linear	n current-no 3), relative t resistor.	ise index in o the applie
SENS =	temperature	e sensing		IEC 60195 (1	965)	
AAE619-005 PTC peak inr	01 level min rush curren	NR23.3 real measure A t I_peak(inr) I _{peak(inr)}	E01	REMARKS: The current-n decade' expre the 'noisiness The ideal rect current-noise geometrically The index is o	oise index ' essed in dB ' of individu tangular pas index is on centred at defined as fr	microvolts p is the term al resistors s band ass e frequency 1000 Hz (c/ ollows:
The minimum of a degaussi voltage and a	peak alterr ng PTC the mbient tem	nating inrush current (i rmistor at specified ac perature.	n A)	Current-noise frequency dec Where v _{rms} is circuit rms cu	e index = 20 cade). the number	log ₁₀ (v _{rms)} / · of microvo
AAE014-005 AAE150-005	= ambient te = voltage (a	emperature c)		decade and V the resistor un Since the cur	/ _T is the nun nder test. rent-noise p	ower spect
AAE620-005	01 level max	NR23.3 real measure A	E01	index provide frequency dec	s an estima cade.	te of curren
PTC peak cu	rrent	l_peak I _{peak}		AAE622-006	02 simple	M3 non-quant
The meyimum	nook oltor	\mathbf{r}		nulaa ahana		Onulas al

The maximum peak alternating current (in A) of a degaussing PTC thermistor, at specified ac voltage, ambient temperature, and duration after switch-on of the ac voltage.

AAE014-005 = ambient temperature AAE028-005 = duration AAE150-005 = voltage (ac)

E06

one frequency ed dc voltage, of

per volt in a used to express sociated with the decade, /s). /V⊤ dB (in a lts of open frequency olts applied to rum racteristic, the nt-noise in any

AAE622-006	02	МЗ	A59
	simple	non-quantitative c	ode

pulse shape

@pulse shape

Code of the shape of a pulse applied to an electric, electronic or electromechanical component as a variable.

REC = rectangular pulse

SQW = square-wave pulse

EXP = exponential or 'full lightning' impulse

REMARKS:

References: full lightning impulse IEC 60060-1 (1989) rectangular pulse IEC 60050(702)

(1992)

AAE623-005	01	NR14	H01
	simple	integer measure K	

colour temperature @T_col $@T_{col}$

The colour temperature of light (in K) applied to a light dependent resistor, as a variable.

AAE624-005	02 simple	NR14 integer measure lx	L34	AAE633-005	01 level max	NR33.3ES2 real measure m	Т03
illuminance		@E @E		lacquered le	ength	I_lacq L _{lacq}	
The illuminan dependent res	ce of light (i sistor, as a v 01	n lx) applied to a light variable. NR3_3.3ES2	F01	The maximum electric/ elec with axial lea leads.	n length (in tronic or ele ids, including	m) of the body of an ctromechanical comp g the lacquered part c	onent of the
////2020 000	level max	real measure A		AAE634-005	01 simple	M8A57 non-quantitative cod	le
thermistor cu	urrent	I_TDR I _{TDR}		terminal ma	terial	terminal mat	
The maximum at specified d	n dc current c voltage ar	(in A) through a therm id ambient temperatur	nistor e.	Code of the telectronic or	erminal mat	erial of an electric- anical component.	
AAE013-005 = AAE014-005 =	= voltage (d = ambient te	c) emperature		AgPd = NiSn =	silver-pallac nickel-tin	lium	
AAE626-005	01 level miNol	NR33.3ES2 Max real measure	E33	AAE635-001	01 simple	M17 string	A58
PTC switchin	ng resistand	ceR_sw		resistor pac envelope coo	kage code le	res package	
		R₅w R₀		Code of the I	backage or e	envelope type of a res	sistor.
The value as zero-power re corresponding	specified by esistance (in g with the sv	<pre>v level (miNoMax) of th ohms) of a PTC therr witching temperature.</pre>	ne nistor	AAE637-005	01 simple	M17 string	A58
IEC 60738-1	(1998)			transistor pa envelope coo	ackage code le	etra package	
REMARKS: The value of z the switching	zero-power temperature	resistance correspond e.	ing to	Code of the o	envelope typ	e of a transistor.	
The switching to the minimu multiplying fac	resistance m resistanc ctor. It may	is expressed with refe e (R _{min}) by a specified also be expressed as	erence an	AAE638-005	02 simple	M3 non-quantitative cod	A55 le
absolute value R _{min.}	e of resistar	nce and independent o	of	transistor p	olarity	polarity	
A A E 620 005	04	ND2 2 2502	E04	The abbrevia material form	ited name of ing the junc	the type of semicond tions of a bipolar tran	luctor sistor.
AAE029-005	level max	real measure A	EUT	NPN = PNP =	negative-po positive-neg	sitive-negative gative-positive	
PTC residual	current	I_res I _{res}		REMARKS: N- Ext	rinsic semic	onductor in which the	the
The maximum thermistor at a temperature.	n residual cu specified ac	urrent (in A) of a PTC voltage and ambient		P- Ext type: mo	bile hole der rinsic semic bile hole der	nsity. onductor in which the nsity exceeds the	
AAE014-005 = AAE150-005 =	= ambient te = voltage (a	emperature c)		cor		aron density.	

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61360-4 © IEC:2005(E)
61360-4 © IEC:2005(E)

AAE640-005 02 NR2..3.3 E01 level minMax real measure 1

collector current ratio I 1C/I 2C I_{1C}/I_{2C}

The value as specified by level (minMax) of the ratio of the collector currents of a dual bipolar transistor at specified equal collector-base voltages, equal baseemitter voltages and at specified sum of emitter currents.

AAE408-005 = emitter current (dc) AAE419-005 = collector-base voltage AAE427-005 = base-emitter voltage

AAE641-005 02 NR2..3.3 E01 level max real measure A

collector saturation current I_Csat Csat

The maximum collector current (in A) at which the collector-emitter and base-emitter saturation voltages of a switching bipolar transistor are given at specified dc saturation current gain and ambient temperature.

NOTE

At I_{Csat} the switching properties should also be characterised in a resistive circuit (t_d, t_r, t_s and t_f) using the same value for $+I_{\text{B}}$ and $-I_{\text{B}}$ as the base current used for V_{Cesat} and V_{Besat}.

AAE014-005 = ambient temperature AAE952-005 = dc current gain sat

AAE642-005 01 NR3..3.3ES2 E01 level nom real measure A/K

differential current change \$DI/\$DT $|\Delta | / \Delta T|$

The absolute value of the differential current change with temperature (in A/K) of a dual bipolar transistor at specified sum of emitter currents and equal collector-base voltage, within a temperature range, between specified temperatures (T_1 and T_2).

AAE408-005 = emitter current (dc) AAE419-005 = collector-base voltage AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

AAE644-005	01	NR33.3ES2	E06
	level max	real measure	
		V/K	

differential voltage change \$DV/\$DT $|\Delta V/\Delta T|$

The absolute value of the maximum differential voltage change with temperature (in V/K) of a dual bipolar transistor at specified sum of emitter currents and equal collector-base voltage, within a temperature range, specified by the temperatures (T₁ and T_2).

AAE408-005 = emitter current (dc) AAE419-005 = collector-base voltage AAE958-005 = temperature T 1 AAE959-005 = temperature T_2

AAE647-005	02 level max	NR23.3 real measure dB	E49
average nois	e figure e factor	F_AV F _{AV}	

noise figure The maximum average noise figure (in dB) of a bipolar transistor at specified collector current. collector-emitter voltage, source impedance and

AAE406-005 = collector current (dc) AAE412-005 = collector-emitter voltage AAE934-005 = bandwidth AAE936-005 = source impedance

IEC 60747-1 (1983)

REMARKS:

bandwidth.

Average noise figure:

Ratio of 1) the total output noise power within an output frequency band when the noise temperature of all input terminations is at the reference noise temperature T_0 at all frequencies that contribute to the output noise, to 2) that part of Item 1) caused by the noise of the signal-input termination within the signal-input frequency band.

AAE648-005	02	NR23.3	E49
	level	minTypMax	real measure
		dB	

F

F

spot noise figure

spot noise factor noise figure

The value as specified by level (minTypMax) of the spot noise figure (in dB) of a bipolar transistor at specified collector current, collector-emitter voltage, source impedance and frequency.

AAE029-005 = frequency AAE406-005 = collector current (dc) AAE412-005 = collector-emitter voltage AAE936-005 = source impedance

IEC 60747-1 (1983)

REMARKS:

Spot noise figure:

Ratio of 1) the total output noise power per unit bandwidth (spectral density) at a single output frequency when the noise temperature of all input terminations is at the reference noise temperature T_{no} at all frequencies that contribute to the output noise, to 2) that part of item 1) caused by the noise of the signal-input termination at the signal-input frequency.

AAE655-005	01	NR33.3ES2	E09
	level max	real measure	
		F	

input capacitance at gate $$C_{ig}$$

The maximum input capacitance (in F) at the gate of an N-channel field-effect transistor at specified drain current, drain-source voltage, gate-source voltage and frequency.

AAE029-005 = frequency AAE367-005 = drain current (dc) AAE376-005 = drain-source voltage AAE381-005 = gate-source voltage

IEC 60747-8 (2000)

AAE656-005 02 NR3..3.3ES2 E45 level minTypMax real measure S

transfer conductance g_fs gfs

The value as specified by level (minTypMax) of the nominal value of the real part of the transfer admittance (in S) of a forward biased field-effect transistor at specified drain current and drain-source voltage.

AAE367-005 = drain current (dc) AAE376-005 = drain-source voltage

AAE657-005	02	NR23.3	E49
	level minTypMa	x real	measure
	dB		

spot noise figure	F
spot noise factor	f
noise figure	

The value as specified by level (minTypMax) of the spot noise figure (in dB) of a field-effect transistor at specified drain current, drain-source voltage, gate-source voltage, source impedance and frequency.

AAE029-005 = frequency AAE367-005 = drain current (dc) AAE376-005 = drain-source voltage AAE381-005 = gate-source voltage AAE936-005 = source impedance

IEC 60747-1 (1983)

REMARKS:

Spot noise figure:

Ratio of 1) the total output noise power per unit bandwidth (spectral density) at a single output frequency when the noise temperature of all input terminations is at the reference noise temperature T_{no} at all frequencies that contribute to the output noise, to 2) that part of item 1) caused by the noise of the signal-input termination at the signal-input frequency.

AAE682-006	02	M17	A91
	simple	non-quantitative code	e

@level

level

Abbreviated name of the value level of a physical quantity, distinguishing it from other possible or allowed values of the same quantity.

miNoMax	=	minimum/nominal/maximum
minTyp	=	minimum/typical
minTypMax	(=	minimum/typical/maximum
typMax	=	typical/maximum
minMax	=	minimum/maximum

AAE683-005	02	M8A56
	simple	non-quantitative code

temperature type @T type

IEC code of the type of temperature indicating the specific part of a component, or its environment, to which it applies.

T_mb	= mounting base temperature
Т_j	= junction temperature
T_tp	= tie-point temperature
T_amb	= ambient temperature
T_case	= case (envelope) temperature
T_h	= heatsink temperature

REMARKS:

This data element to be used in combination with AAE685-005.

AAE684-005	01	NR3 S3.3ES2	E01
	simple	real measure	
		А	

rate of rise of on-state curr @dl_T/dt @dl_T/dt

The rate of rise of the on-state current (in A/s) in a thyristor, as a variable.

AAE685-005	01 simple	NR1 S4 integer measure Cel	H02
temperature		@T @T	

The temperature (in Cel) of a component, or its environment, as a variable.

REMARKS:

This data element to be used in combination with AAE683-005.

AAE686-005	03	M8	A55
	simple	non-quantitative of	code

IC technology

IC technology

Code indicating the semiconductor technology of an IC.

ACL	= **advanced CMOS logic
ALS	= ***advanced low power Schottky TTL
ASTTL	= ***advanced Schottky TTL
BICMOS	= bipolar & CMOS combined
BIP	= bipolar
CMOS	= *complementary MOS
ECL	= *emitter coupled logic
FAST	= ***Fast TTL
HCMOS	= **high speed CMOS
I2L	= *integrated injection logic
LSTTL	= ***low power Schottky TTL
MIXMOS	= NMOS & CMOS combined
MOS	= metal oxide semiconductor
NMOS	= *N-type MOS
PMOS	= *P-type MOS
STDTTL	= **standard TTL
STTL	= **Schottky TTL
TTL	= *transistor transistor logic

AAE687-005 01 M..8A59 simple non-quantitative code

quality approval authority QA authority quality assurance quality certification

The abbreviated name of the authority for quality certification of products.

AQAP = Allied Quality Assurance Procedure CECC = Cenelec Electronic Components Committee IECQ = IEC Quality Assessment System MIL = Military Standard (USA)

AAE688-005 02 NR2..3.3

AAE688-005	02	NR23.3	H12
	level max	real measure	
		K/W	

thermal resistance R

R_th R_{th}

The maximum operating thermal resistance (in K/W), of an electric-electronic or electromechanical component, of a specified thermal resistance type.

AAE689-005 = thermal resistance type

ISO 31-4 (1992)

AAE689-005	01	M17	A56
	simple	non-quantitative code	Э

thermal resistance type @R_th(type) @R_{th(type)}

Code specifying the thermal resistance type of an electric/electronic component.

R_th(h-a)	= R _{th} from heatsink to
	ambient free air
R_th(j-a)	= R _{th} from junction to
	ambient free air
R_th(j-c)	= R _{th} from junction to case
R_th(j-h)	= R _{th} from junction to heatsink
R_th(j-mb)	= R _{th} from junction to
	mounting base
R_th(j-t)	= R _{th} from junction to tie-point
R_th(mb-h)	= R _{th} from mounting base to
	heatsink

REMARKS:

This data element is to be used in combination with AAE688.

AAE690-005	01	NR2 S3	3.3	E06
	level	minTypMax V	real measur	e
supply voltaged of supply voltaged	ge tage	V_sup V _{sup}		

The value as specified by level (minTypMax) of the direct supply voltage, applied to an IC.

REMARKS:

Commonly known supply voltage symbols: V_{CC} for TTL, NMOS and HCMOS circuits V_{DD} for CMOS circuits V_P for analogue circuits V_{EE} for ECL circuits

AAE691-005	01	NR3 S3	.3ES2	E01
	level minTy	рМах	real measur	е
		А		

supply current	l_sup
dc supply current	I _{sup}

The value as specified by level (minTypMax) of the direct supply current of an IC.

REMARKS:

Commonly known supply current symbols: Icc for TTL, NMOS and HCMOS circuits IDD for CMOS circuits IGND for the quiescent power supply current (ground current) of CMOS and HCMOS circuits. IP for analogue circuits

AAE692-005 02 E01 NR3 S..3.3ES2 level max real measure Δ

standby current disabled I stbD

I_{stbD} I_{CCstbD}

The maximum standby supply current (in A) of a combinatorial, sequential or interface function of an IC with the output disabled.

AAE693-005	02	NR3 S3.3ES2	E01
	level max	real measure	
		٨	

standby current enabled I stbE I_{stbE} I_{CCstbE}

The maximum standby supply current (in A) of a digital combinatorial, sequential or interface IC with the output enabled.

	AAE696-005	01 simple	X3 A56 non-qua	ntitative code
	tube type		tube typ	e
	Code of the c belongs.	ategory to v	which an e	electron tube
 CRT = display tubes (cathode-ray tube) GAS = gas filled tubes PHO = photosensitive tubes SCC = space charge controlled tubes SCW = space charge wave tubes 			γ tube) ubes	
	AAE697-005	01 level minT	NR33. 3 ypMax A	ES2 E01 real measure
	current cons	umption	l_tot I _{tot}	
	The value as	specified by	y level (m	inTypMax) of the

direct supply current (in A) applied to an amplifier at specified supply voltage and temperature of a temperature type.

AAE102-005 = supply voltage AAE683-005 = temperature type AAE685-005 = temperature

—	1	83	-
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AAE698-005	01	NR23.3	E06
	level	minTypMax	real measure
		dB(mV)	

 V_o

output	voltage
--------	---------

The value as specified by level (minTypMax) of the output voltage (in dBmV) of a wideband amplifier at specified supply voltage, intermodulation distortion and temperature of a temperature type.

AAE102-005 = supply voltage AAE683-005 = temperature type AAE685-005 = temperature AAE709-005 = intermod distortion d_im

REMARKS:

Intermodulation distortion measured according to the three-tone method:

$V_p = V_o$	f _p = 287.25 MHz
$V_{q} = V_{o-6} dB$	f _g = 294.25 MHz
$V_r = V_{o-6} dB$	f _r = 296.25 MHz

measuring frequency is $f_{(p+q-r)} = 285.25$ MHz 60 dB(mV) means 60 dB above 1 mV, is 1 V.

AAE699-005	02	NR2 S3.3		E06
	level	minTypMax	real me	asure
		dB		

composite triple beat CTB

The value as specified by level (minTypMax) of the quotient (in dB) of a wideband amplifier of: 1) the sum of frequency components measured at a specified TV channel arising from superposition of any three frequency components when a specified number of adjacent channels have an input signal resulting in an equal output voltage, to 2) the wanted output signal level at specified supply voltage, temperature of a temperature type.

AAE102-005 = supply voltage AAE683-005 = temperature type AAE685-005 = temperature

AAE700-005	02	NR2 S3.3		E06
	level r	ninTypMax	real mea	sure
		dB		

2nd-order beat d_2

The value as specified by level (minTypMax) of the quotient (in dB) of a wideband amplifier of: 1) the amplitude of the frequency component arising by the superposition of two input signals with specified amplitude and frequency (or channel) measured at a specified frequency (or channel), and 2) the amplitude of one of two original frequencies at specified supply voltage, temperature and temperature type.

AAE102-005 = supply voltage AAE683-005 = temperature type AAE685-005 = temperature

 $\begin{array}{c|c} \mbox{REMARKS:} \\ \mbox{Measuring method:} \\ \hline V_{p} = V_{o} & f_{p} = f_{1} & (channel p) \\ \hline V_{q} = V_{o} & f_{q} = f_{2} & (channel q) \\ \mbox{2nd-order beat measured at } (f_{1} + f_{2}) \end{array}$

AAE701-005	01	NR1 S	S4	E06
	level	minTypMax	integer	measure
		dB		

input return losses S_11 S₁₁

The value as specified by level (minTypMax) of the complex ratio (in dB) of: 1) a sinusoidal incident current, to 2) the corresponding reflected current at the input of a wideband amplifier at specified supply voltage, input impedance, temperature of a temperature type and a frequency range between specified frequencies (f_1 and f_2).

AAE102-005 = supply voltage AAE683-005 = temperature type AAE685-005 = temperature AAE936-005 = source impedance AAE963-005 = frequency f_1 AAE964-005 = frequency f_2

AAE702-005	01	NR1 S	54	E06	3
	level n	ninTypMax	integer	measure	
		dB			

output	return	losses	S	_22
			S	22

The value as specified by level (minTypMax) of the complex ratio (in dB) of: 1) a sinusoidal incident current, to 2) the corresponding reflected current at the output of a wideband amplifier at specified supply voltage, output impedance, temperature of a temperature type and a frequency range between specified frequencies (f_1 and f_2).

AAE102-005 = supply voltage AAE683-005 = temperature type AAE685-005 = temperature AAE938-005 = load impedance AAE963-005 = frequency f_1 AAE964-005 = frequency f_2

AAE703-005	01	NR1 S4		E06
	level	minTypMax	integer	measure
		dB		

cross	modulation	Xmod
		Xmod

The value as specified by level (minTypMax) of the cross modulation (in dB) measured at the output of a wideband amplifier when a specified number of carrier frequencies, with each an equal output voltage, is applied to the input of the module at specified supply voltage, temperature of a temperature type.

NOTES

1 All carrier frequencies are switched on/off with a duty cycle of 50% and a repetition frequency of: 15,750 kHz for 60 Hz mains frequencies and 15,625 kHz for 50 Hz mains frequencies.

2 100% is specified as 0 dB 1% is specified as -40 dB

AAE102-005 = supply voltage AAE683-005 = temperature type AAE685-005 = temperature

AAE704-005	02 simple	NR23.3 real measure W	E49
sync output	power	@P_o(syn) @P _{o(syn)}	

The operating sync output power (in W) of a bipolar rf power transistor or wideband amplifier, measured according to the three-tone test method, as a variable.

REMARKS:

NEWANNO.					
Three-tone test method	d:				
vision frequency	f _v	level = -8 dB			
sound carrier frequency	f _v + 5.5 MHz	level = -7 dB			
sideband signal	f _v – 1.1 MHzl	level = -16 dB			
zero level 0 dB corresponds to peak sync level.					

AAE705-005	02	NR2 S.	.3.3	E49
	level	minTypMax	real me	easure
		dB		

slope cable equivalent SL

The value as specified by level (minTypMax) of the difference in power gain (in dB) of a wideband amplifier measured at specified frequencies (f_1 and f_2) of a frequency range, with an optimised cable equivalent impedance, at specified supply voltage and temperature of a temperature range.

AAE102-005 = supply voltage AAE683-005 = temperature type AAE685-005 = temperature AAE963-005 = frequency f_1 AAE964-005 = frequency f_2

AAE706-005 03 NR2..3.3 E49 level minTypMax real measure dB

conformity of frequency response FL flatness of frequency response FL flatness

The value as specified by level (minTypMax) of the gain difference (in dB) of a wideband amplifier of the measured power gain and the theoretical calculated power gain with an optimised cable equivalent impedance at specified supply voltage, temperature of a temperature type and a frequency range between specified frequencies (f_1 and f_2).

AAE102-005 = supply voltage AAE683-005 = temperature type AAE685-005 = temperature AAE963-005 = frequency f_1 AAE964-005 = frequency f_2 AAE707-005

level minTypMax real measure W

peak envelope power PEP PEP

02

The value as specified by level (minTypMax) of the peak envelope power (in W) of a bipolar transistor in SSB mode of operation, measured according to the two-signal method, at specified collector-emitter voltage, collector current, frequency and temperature of a temperature type.

AAE029-005 = frequency AAE406-005 = collector current (dc) AAE412-005 = collector-emitter voltage AAE683-005 = temperature type AAE685-005 = temperature

AAE708-005	02 simple	NR23.3 real measure W	E49
peak envelop	be power	@PEP	

@PEP

The value of the peak envelope power (in W) of a bipolar transistor or wideband amplifier in SSB mode of operation, measured according to the two-signal method, as a variable.

AAE709-005	01	NR1 S4	E06
	simple	integer measure dB	

intermod distortion d_im @d_im @d_{im}

The intermodulation distortion (in dB) of a bipolar rf power transistor or wideband amplifier measured according to the three-tone test method, as a variable.

REMARKS:

vision frequency	f _v	level = -8 dB	
sound carrier frequency	f _v + 5.5 MHz	level = -7 dB	
sideband signal	f _v – 1.1 MHzI	level = -16 dB	
zero level 0 dB corresponds to peak sync level.			

AAE710-005	01	NR1 S4	E06
	simple	integer measure	
		dB	

intermod distortion d_3 @d_3

@d₃

The intermodulation distortion (in dB) of a bipolar rf power transistor, measured according to the two-tone test method, as a variable.

REMARKS:

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Two-tone test method:	
f ₁ = 28.000 MHz	$V_1 = V_0 - 6 \text{ dB}$
f ₂ = 28.001 MHz	$V_2 = V_0 - 6 \text{ dB}$
measured harmonic compo	onent is
(f ₂ + 1 kHz) – (f ₁ – 1 kHz) =	= 3 kHz

AAE711-005	01 NR23.3	E06
	level minTypMax	real measure
	dB	

intermodulation distortion d_im d_im

The value as specified by level (minTypMax) of the intermodulation distortion (in dB) of an rf bipolar power transistor measured according to the three-tone test method at specified sync output power, vision frequency, collector-emitter voltage, collector current and temperature of a temperature type

AAE029-005 = frequency

AAE406-005 = collector current (dc) AAE412-005 = collector-emitter voltage AAE683-005 = temperature type AAE685-005 = temperature AAE704-005 = sync output power

REMARKS:

vision frequency	f _v	level = -8 dB		
sound carrier frequency	f _v + 5.5 MHz	level = -7 dB		
sideband signal	f _v – 1.1 MHzl	level = -16 dB		
zero level 0 dB corresponds to peak sync level.				

AAE712-005	01 NR2	S3.3	E06
	level minTypMax	real	measure

intermodulation distortion d_3 d_3

The value as specified by level (minTypMax) of the third order intermodulation distortion (in dB) of a bipolar rf power transistor measured according to the two-tone test method at specified peak envelope power, frequency, collector-emitter voltage, collector current and temperature of a temperature type

AAE029-005 = frequency AAE406-005 = collector current (dc) AAE412-005 = collector-emitter voltage AAE683-005 = temperature type AAE685-005 = temperature AAE708-005 = peak envelope power

REMARKS:

Two-tone test method: $f_1 = 28.000 \text{ MHz}$, $V_1 = V_0 - 6dB$ $f_2 = 28.001 \text{ MHz}$, $V_2 = V_0 - 6dB$ measured harmonic component is: $(f_2 + 1 \text{ kHz}) - (f_1 - 1 \text{ kHz}) = 3 \text{ kHz}$

02 NR23.3	E49
evel minTypMax	real measure
aв	
)2

unilateral power gain G_UM

The value as specified by level (minTypMax) of the power gain (in dB) of a bipolar transistor, considered as a four-terminal network, conjugately matched at its output terminals, assuming the s_{re} (reverse transmission coefficient at common emitter configuration) is zero at specified collector-emitter voltage, collector current, frequency and temperature of a temperature type.

AAE029-005 = frequency AAE406-005 = collector current (dc) AAE412-005 = collector-emitter voltage AAE683-005 = temperature type AAE685-005 = temperature

$$G_{\rm UM} = 10 \log \frac{\bar{s_{\rm fe}}}{(1 - \bar{s_{\rm ie}}^2)(1 - \bar{s_{\rm oe}}^2)}$$

AAE714-005 03 NR2..3.3 E49 level minTypMax real measure

synchronous output power P_o(syn)

 $\mathsf{P}_{\mathsf{o}(\mathsf{syn})}$

The value as specified by level (minTypMax) of the synchronous output power (in W) of a bipolar rf power transistor measured according to the three-tone test method at specified intermodulation distortion, frequency, collector-emitter voltage, collector current and temperature of a temperature type.

AAE029-005 = frequency AAE406-005 = collector current (dc) AAE412-005 = collector-emitter voltage AAE683-005 = temperature type AAE685-005 = temperature AAE709-005 = intermod distortion d im

REMARKS:

Three-tone test method:				
vision frequency	f _v	level = -8 dB		
sound carrier frequency	f _v + 5.5 MHz	level = -7 dB		
sideband signal	f _v – 1.1 MHzl	level = -16 dB		
zero level 0 dB corresponds to peak sync level.				

AAE715-005	02	NR1	4	E49
	level	minTypMax	integer	measure
		%		

efficiency	\$h
	n

The value as specified by level (minTypMax) of the ratio (in %) of the caloric power in the load of a bipolar power transistor to the total power supplied to the transistor at specified application, frequency, load power, collector current, collector-emitter voltage, and temperature of a temperature type.

AAE029-005 = frequency AAE406-005 = collector current (dc) AAE412-005 = collector-emitter voltage AAE683-005 = temperature type AAE685-005 = temperature

REMARKS:

For CW operation the caloric power is equal to P_L . For SSB operation the caloric power is equal to PEP/2. The total power supplied to the transistor is $V_C \times I_C$. AAE716-005 02 NR1 S..4 E06 level minTypMax integer measure

difference in penetration factor \$Dg_os/g_fs

 $\Delta g_{os}/g_{fs}$

The value as specified by level (minTypMax) of the ratio (in V/V) of the change of gate-source voltage difference to the change of drain-gate voltage of a dual field-effect transistor at specified constant drain current, drain-gate voltage and temperature of temperature type.

AAE367-005 = drain current (dc) AAE375-005 = drain-gate voltage AAE683-005 = temperature type AAE685-005 = temperature

 $\left| \Delta \frac{g_{\rm os}}{g_{\rm fs}} \right| = \frac{d\Delta V_{\rm GS}}{dV_{\rm DG}}$

AAE717-005 03 NR1 S..4 E44 level minTypMax integer measure Ω

difference in transfer impedance |\$D1/g_fs| $|\Delta 1/g_{fs|}$

The value as specified by level (minTypMax) of the ratio (in ohms) of the change of gate-source voltage difference to the change of drain current of a dual field-effect transistor at specified constant drain current, drain-gate voltage and temperature of a temperature type.

AAE367-005 = drain current (dc) AAE375-005 = drain-gate voltage AAE683-005 = temperature type AAE685-005 = temperature

$$\left| \Delta \frac{1}{g_{\rm fs}} \right| = \frac{d\Delta V_{\rm GS}}{d I_{\rm D}}$$

AAE718-005 01 NR2 S..3.3 E06 level minTypMax real measure

HIGH-state input voltage V_IH input voltage HIGH V_{IH} HIGH-level input voltage

The value as specified by level (minTypMax) of the HIGH-state dc input voltage (in V), applied to a digital function of an IC at specified supply voltage and in a temperature range between specified temperatures (T_1 and T_2).

AAE102-005 = supply voltage AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

AAE719-005	01 NR2 S	S3.3	E06
	level minTypMax	real measu	re

LOW-state input voltage V_IL input voltage LOW VIL LOW-level input voltage

The value as specified by level (minTypMax) of the LOW-state dc input voltage (in V), applied to a digital function of an IC at specified supply voltage and in a temperature range between specified temperatures (T_1 and T_2).

AAE102-005 = supply voltage AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

AAE720-005	02	NR33.3ES2	Т07
	level max	real measure	
		S	

The maximum access time interval (in s), from address to output, of a memory function of an IC.

NOTE

In the case of a dynamic RAM, it is the time interval (t_{RAC}) between row address strobe and output.

ISO 2382-12 (1988)

AAE721-005	02	NR33.3ES2	Т07
	level max	real measure	
		_	

The maximum time interval (in s) between the application of the CAS (Column Address Strobe) input pulse, other necessary inputs being already present, and the availability of valid data signals at an output of a DRAM.

IEC 60748-2 (1997)

AAE722-007	02	X8 A56
	simple	non-quantitative code

storage functionsto functionmemory/register function

Code identifying the storage function of a digital IC.

CAM = content addressable memory lcs CCD = charge coupled device lcs RAM = random access memory lcs REGI = registers ROM = read only memory lcs

AAE724-005	01	X3 A56
	simple	non-quantitative code

trigger device function trg function

Code of the function of a trigger device.

DIA = diacs THY = thyristors TRI = triacs

AAE725-005	02	02 NR14		
	level m	inMax V	integer measure	
breakover vo	ltage	V_(V _{(B0}	BO)	

The value as specified by level (minMax) of the direct voltage (in V) at the breakover point of a diac, which is where the differential resistance is zero and the principal voltage has reached a maximum value, at specified rate of rise of off-state voltage.

AAE727-005 = rate of rise of off-state volt

IEC 60747-6 (2000)

AAE726-005	01 level min	NR1 S4 integer measure V	E06
output voltag	ge	V_0	
breakback vo	Itage	Vo	

The minimum output voltage (in V) of a diac at a specified rate of rise of voltage (dV/dt) and junction temperature.

AAE271-005 = junction temperature AAE727-005 = rate of rise of off-state volt

AAE727-005	01	NR3 S3.3ES2	E06
	simple	real measure	
		V/s	

rate of rise of off-state volt $@dV_D/dt$ $@dV_D/dt$

The rate of rise (in V/s) of the off-state voltage of a diac or thyristor, as a variable.

AAE728-005	03	NR14	E01
	level max	integer measure A	

rms on-state current I_T(RMS)

The maximum limiting rms on-state current (in A) flowing from the anode to the cathode in a thyristor or triac.

IEC 60747-6 (2000)

AAE729-005 03 NR1..4 E01 level max integer measure A

repetitive peak on-state current I_TRM

The maximum limiting peak on-state current (in A), including all repetitive transient currents, in a triac or thyristor.

IEC 60747-6 (2000

AAE730-005	02 level max	NR3 S3.3ES2 real measure A	E01	AAE734-005	02 level max	NR3 S3.3ES2 real measure A/s	E01
non-rep peak surge on-state	c on-state c e current	urrent I_TSM I _{TSM}		rate of rise o	n-state cur	rent dl_T/dt dl _T /dt	
The maximum current (in A) duration and i	n limiting no in a thyristo mounting-ba	n-repetitive peak on-s or or triac, at specified ase temperature.	tate	The maximum (in A/s) after to to a specified	n limiting rat triggering w on-state cu	e of rise of on-state cu ith a specified gate cu rrent at a stated rate o	urrent rrent of rise
AAE028-005 = AAE272-005 =	= duration = mounting	base temperature		AAE731-005	= gate curre	ent urrent	
IEC 60747-6	(2000)			AAE736-005	= rate of rise	e of gate current	
AAE731-005	01 simple	NR3 S3.3ES2 real measure	E01	IEC 60747-6	(2000)		504
gate current		A @I_G @la		AAE735-005	simple	real measure A/s	EUT
The gate curr	ent in a thyr	istor or triac (in A), as	a	rate of rise o	f commut c	current@dl_com/dt @dl _{com} /dt	
	04		504	The rate of ris of a triac, as a	se of the cor a variable.	mmutating current (in ,	A/s)
AAE/32-005	01 level min	NR3 S3.3ES2 real measure A	E01	AAE736-005	01 simple	NR3 S3.3ES2 real measure	E01
gate trigger o	current	I_GT I _{GT}				A/s	
The minimum thyristor or tri	gate currer ac from the	nt (in A) required to sw off-state to the on-sta	vitch a te at	The rate of rise	t gate curre	ent @dl_G/dt @dl _G /dt te current (in A/s) of a	
AAE271-005	= junction te	emperature		thyristor or tri	ac, as a var	iable.	
IEC 60747-6 (= off-state v (2000)	oltage		AAE737-005	01 simple	NR3 S3.3ES2 real measure V	E06
AAE733-005	01 simple	NR3 S3.3ES2 real measure A	E01	off-state volt	age	@V_D @V _D	
on-state curr	ent	@I_T		The off-state triac anode a	voltage (in V nd cathode,	 between the thyriston as a variable. 	or or
The dc on-sta	ite current (i	in A) flowing from ano	de to	IEC 60747-6	(2000)		
IEC 60747-6	(2000)			AAE738-005	01 level max	NR3 S3.3ES2 real measure V	E06
				off-state volt	age	V_D V _D	
				The maximum between the t the off state,	n limiting co hyristor or t excluding re	ntinuous voltage (in V) riac anode and cathod petitive and non-repe) le in titive

IEC 60747-6 (2000)

voltages.

61360-4	© IE	C:200)5(E)
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AAE739-005	02 level max	NR3 S3 . real measure V	.3ES2 E06	
repetitive pe	ak off-state	voltage V _{DRM}	V_DRM	
The maximum voltage (in V) repetitive volt transient volta	limiting rep across a th ages but ex ages.	betitive peak of yristor or triac cluding all non	f-state including all -repetitive	
IEC 60747-6	(2000)			
AAE740-005	02 level max	NR3 S3 . real measure V/s	.3ES2 E06	
rate of rise o	f off-state v	voltage dV _D /dt	dV_D/dt	
The maximum rate of rise (in V/s) of the off-state voltage that will not trigger the device at a specified off-state voltage and junction temperature.				
AAE271-005 AAE737-005	= junction te = off-state v	emperature oltage		
IEC 60747-6	(2000)			
AAE741-005	02 level max	NR3 S3.3ES real measure V	2 E06	
rate of rise c	ommutating	g voltage dV _{com} /dt dV _D /dt	dV_com/dt	
The maximum commutating current condu not cause swi at specified v current, rms c mounting-bas	n rate of rise voltage, imn ction in the tching from alues of the on-state curr e temperatu	e (in V/s) of the nediately follow opposite direct the off-state to rate of rise of rent, off-state v ire.	ving on-state tion, that will o the on-state commutating oltage and	
AAE272-005 AAE735-005 AAE737-005 AAF063-005	= mounting = rate of rise = off-state v = rms on-sta	base temperati e of commut cu oltage ate current	ure Irrent	
IEC 60747-6	(2000)			

AAE742-005	01	NR3 S3.3ES2	E06
	level min	real measure	
		V	

gate trigger voltage V_

је **V_GT** V_{GT}

The minimum gate voltage (in V) required to switch a triac or thyristor from the off-state to the on-state at a specified off-state voltage and junction temperature.

AAE271-005 = junction temperature AAE737-005 = off-state voltage

IEC 60747-6 (2000)

AAE743-005	01	X3	A56
	simple	non-quantitative code)

thyristor function thy function

Code of the function of a thyristor.

FTO = fast turn off thyristors

GTO = gate turn off thyristors

RVB = reverse blocking thyristors

AAE744-005	02	NR33.3ES2	E01
	level max	real measure	
		А	

average on-state current $I_{T(AV)}$

The maximum limiting average dc current (in A) flowing from anode to cathode in the on-state of a thyristor during one mains cycle at a specified mounting base temperature.

AAE272-005 = mounting base temperature

IEC 60747-6 (2000)

REMARKS: One 50 Hz mains cycle = 20 ms. One 60 Hz mains cycle = 16,7 ms.

AAE745-005 01 NR1..4 E01 level max integer measure A

controllable anode current I_TCRM

The maximum limiting direct anode current (in A) that can be controlled, i.e. interrupted, in the conducting state by reverse biasing of the gate-cathode voltage in a gate turn off thyristor.

AAE746-005	02	NR33.3ES2	Т07
	level max	real measure	
		S	

fall timet_ftime constanttf

The maximum time interval (in s) between 90 % of the on-state current and the moment when this current has decreased to 10 %, at specified values of the on-state current, off-state voltage and junction temperature.

AAE271-005 = junction temperature AAE733-005 = on-state current AAE737-005 = off-state voltage

AAE747-005 02 NR3 S..3.3ES2 T07 level max real measure s

commutated turn-off time t_q

The maximum time interval (in s) between the instant when the on-state current has decreased to zero after external switching of the anode-cathode voltage and the instant when the specified on-state voltage which the thyristor is capable of supporting without turning on, passes through zero with a specified rate of rise of on-state voltage.

AAE683-005 = temperature type AAE684-005 = rate of rise of on-state curr AAE685-005 = temperature AAE727-005 = rate of rise of off-state volt AAE733-005 = on-state current AAE737-005 = off-state voltage

IEC 60747-6 (2000)

AAE748-005	02	NR3 S3.3ES2	E01
	level min	real measure	
		Α	

cathode-gate to cathode current I_GKT I_GKT

The minimum direct cathode-gate to cathode current (in A) that will trigger a tetrode thyristor at specified off-state voltage and junction temperature.

AAE271-005 = junction temperature AAE737-005 = off-state voltage - 191 -

05	02	NK3 33.3E3Z	EUI
	level min	real measure	
		А	

anode-gate to anode currentI_GAT I_{GAT}

The minimum anode-gate to anode current (in A) that will trigger a tetrode thyristor at specified offstate voltage, resistance between cathode-gate and gate, and junction temperature.

AAE271-005 = junction temperature AAE737-005 = off-state voltage AAE956-005 = resistance

AAE750-005	02	NR3 S3.3ES2	E06
	level min	real measure	
		V	

cathode-gate trigger voltage V_GKT $$V_{\rm GKT}$$

The minimum cathode-gate to cathode voltage (in V) that will trigger a tetrode thyristor at a specified off-state voltage and junction temperature.

AAE271-005 = junction temperature AAE737-005 = off-state voltage

AAE751-005	02	NR3 S3.3ES2	E06
	level min	real measure	
		v	

anode-gate to anode voltageV_GAT $$V_{GAT}$$

The minimum anode-gate to anode voltage (in V) that will trigger a tetrode thyristor at specified off-state voltage and junction temperature.

AAE271-005 = junction temperature AAE737-005 = off-state voltage

AAE752-005	01 level nom	NR33.3ES2 real measure kg	K01
mass		m m	

The nominal mass (in kg) of a component.

AAE753-005	01 NR33.3ES2		
	level miNoMax real measure		
	m		

inside diameter

The value as specified by level (miNoMax) of the inside diameter (in m) of a component with a body of circular cross-section.

d_in d_{in}

AAE754-005	02 level nom	NR14 integer measure 1	Q56
number of te	rminals	N_term	

number of pins N_{term}

The number of electrical terminals of an electric/ electronic or electromechanical component.

AAE755-005	02 level min	NR33.3ES2 real measure Ω	E44
impedance		 Z_S Z _{SI}	

The minimum value of the modulus of impedance (in ohms) of an inductor at specified frequency.

AAE029-005 = frequency

REMARKS:

Applies to beads threaded on a straight copper wire.

AAE756-005	02 level max	NR14 integer measure dB	E44
impedance d	ecrease	dDZ dDZ	

The maximum decrease of the modulus of the impedance (in dB), of an inductor, relative to the modulus of impedance at frequency $f_{1,}$ over a frequency range between specified frequencies (f_1 and f_2).

AAE963-005 = frequency f_1 AAE964-005 = frequency f_2

REMARKS: Applies to wound six-hole beads.

AAE758-005	01 level nom	NR33.3ES2 real measure Hz	F03
frequency at	Z_max	f_Zmax f _{Zmax}	
The nominal f of impedance value.	requency (ir of an induct	n Hz) at which the mod tor reaches its maximu	ulus m
REMARKS: Applies to wo	und six-hole	beads.	
AAE759-005	01 simple	X3 A57 non-quantitative code	
coercivity cla	ass	coercivity cl	
Code of the comagnetic mate	oercivity cla erial.	ss of a magnetic part c	٥r
HRD = hard SFT = soft n	magnetic nagnetic	(high coercivity) (low coercivity)	
AAE760-005	03 level min	NR23.3 real measure Ω/m	E36
resistivity		\$r_r ρ _r	
The minimum material.	dc resistivit	y (in Ω/m) of a magnet	ic

AAE761-005	01 level min	NR1 S4 integer measure Cel	H02
Curie temper Curie point	ature	T_C	

The minimum temperature (in Cel) below which a magnetic material is ferromagnetic or ferrimagnetic and above which it is paramagnetic.

NOTE

The change of state is not perfectly sharp, so the above definition may not give a value sufficiently defined for practical purposes. To get a more definite value, the graph of the square of the specific saturation magnetisation (i.e. sigma²) as a function of temperature should be extrapolated to sigma² = 0. The Curie point may then be taken as the point where this extrapolation meets the temperature axis.

IEC 60050(221) (1990)

AAE762-005	01	M8	A57
	simple	string	

hard magnetic material grade hard mat grade

Code of the grade of hard magnetic material according to the manufacturer.

REMARKS:

The material grade code may be used to refer to the magnetic characteristics of a hard magnetic part.

AAE764-005	01	M8	A57
	simple	string	

soft magnetic material grade soft mat grade

Code of the grade of soft magnetic material according to the manufacturer.

REMARKS:

The material grade code may be used to refer to the magnetic characteristics of a soft magnetic part.

AAE765-005	01	M17	A58
	simple	string	

core size code core size code

Code of the shape and size of the core or core halves of a soft magnetic part.

REMARKS:

Code composition:

E-cores :	letter E followed by nominal length/width in mm
EC-cores :	letters EC followed by nominal length in mm
ETD-cores :	letters ETD followed by nominal length in mm
P-cores :	letter P followed by nominal outer diameter/nominal length in mm
RM-cores :	letters RM followed by nominal sidelength of base square in mm
X-cores :	letter X followed by nominal sidelength of base square in mm
	E-cores : EC-cores : ETD-cores : P-cores : RM-cores : X-cores :

Code extension.

Codes may be extended by adding other nominal e.g. height and width.

AAE766-005	01	М3	A58
	simple	non-quantitative code	;

core shape

Code of the shape of a soft magnetic part, or set of parts forming a core.

core shape

E EC EP ETD H	= E-core (half) = EC-core (half) = EP-core (set) = ETD-core (half) = H-core (set, together with window- or U-core)
I	= I-core (part)
IMP	= impeder
мнс	= multi-hole-core
Р	= P-core (set)
PH	= PH-core (half)
R	= ring-core
RM	= square-core(set)
ROD	= rod
TUB	= tube
U	= U-core (half)
Х	= X-core (set)
YKR	= yoke-ring

REMARKS:

For core halves the effective core parameter DETs AAE770-005, AAE771-005, AAE776-005, AAE777-005, AAE782-005 and AAF283-005 are determined in combination with an identical counterpart for I-cores in combination with a U-core.

AAE767-005	01 simple	NR14 integer measure A/m	E17
peak magnet	ic field stre	ngth@H_peak @H _{peak}	
The peak mag a magnetic m	gnetic field s aterial, as a	trength (in A/m) applie variable.	ed to
AAE768-005	01 simple	NR33.3ES2 real measure T	E19

peak flux density @B_peak peak magnetic flux density @B_{peak}

The peak magnetic flux density (in T) applied to a magnetic material, as a variable.

magnetic flux densityBmagnetic inductionB

The value as specified by level (minTypMax) of the magnetic flux density (in T) of a soft magnetic material at specified frequency, ambient temperature and peak magnetic field strength.

AAE014-005 = ambient temperature AAE029-005 = frequency AAE768-005 = peak flux density

AAE770-005 01 NR3..3.3ES2 E22 level minTypMax real measure H

inductance	factor	A_L
		A

The value as specified by level (minTypMax) of the inductance (in H) of a coil placed on a soft magnetic part, divided by the square of the number of turns, at specified frequency, ambient temperature and peak flux density.

AAE014-005 = ambient temperature AAE029-005 = frequency AAE768-005 = peak flux density

 $A_L = \frac{L}{N^2}$

where L is the inductance of the coil when placed on the core and N is the number of turns on the coil.

IEC 60050 (221) (1990)

AAE771-005 02 NR1..4 E25 level minTypMax integer measure

effective permeability $m_e \mu_e$

The value as specified by level (minTypMax) of the effective permeability of a soft magnetic part at specified frequency, ambient temperature and peak flux density.

NOTE

Applies to non-homogeneous cores, e.g. cores with an air gap.

AAE014-005 = ambient temperature AAE029-005 = frequency AAE768-005 = peak flux density

IEC 60050 (221) (1990)

AAE772-005 02 NR1..4 E25 level minTypMax integer measure

initial permeability \$m_i

μ_i —

The value as specified by level (minTypMax) of the limiting value of the amplitude permeability of a soft magnetic material when the magnetic field strength tends to zero.

$$\mu_{\rm i} = \lim_{\rm H \to 0} \mu_{\rm a}$$

IEC 60050 (221) (1990)

AAE773-005 02 NR1..4 E25 level minTypMax integer measure

amplitude permeability \$m_a

The value as specified by level (minTypMax) of the relative permeability of a soft magnetic material, obtained from the peak value of the flux density and the applied alternating field strength, at specified frequency, ambient temperature and peak magnetic flux density.

NOTES

The peak values apply to the actual waveforms.
 The material is assumed to be in a cyclic magnetic condition.

AAE014-005 = ambient temperature AAE029-005 = frequency AAE768-005 = peak flux density

$$\mu_{\rm a} = \frac{1}{\mu_0} \cdot \frac{\mathbf{B}_{\rm peak}}{\mathbf{H}_{\rm peak}}$$

IEC 60050 (221) (1990)

AAE775-005	01 level max	NR23.3 real measure W
total power l	oss	P_tot

H07

The maximum total power loss (in W) of a soft magnetic part at specified frequency, ambient temperature and peak flux density.

 P_{tot}

NOTE

power loss

The total loss may include: eddy current loss, hysteresis loss, rotational hysteresis loss, residual loss, gyromagnetic resonance loss.

AAE014-005 = ambient temperature AAE029-005 = frequency AAE768-005 = peak flux density

IEC 60050 (221) (1990)

AAE776-005 01 NR2..3.3 T03 level nom real measure m

effective magnetic path lengthl_e

The nominal effective magnetic path length (in m) of a soft magnetic part.

NOTE This is the magnetic path length of a hypothetical equivalent toroidal core of the same material properties.

 $l_e = \frac{C_1^2}{C_2}$

where C_1 is the core factor C_1 (AAE777-005)

and
$$C_2 = \sum \frac{1}{A^2}$$

IEC 60050 (221) (1990)

AAE777-005	01	NR23.3	Т03
	level nom	real measure m ⁻¹	

core factor C_1 C_1 core inductance parameter C1

The nominal value (in m^{-1}) of the summation of the quotients of the elements of the magnetic path length over the corresponding cross-sectional areas (in m^{-1}) of a soft magnetic part.

$$C_1 = \sum \frac{1}{A}$$

IEC 60050 (221) (1990)

AAE778-005	01	01 NR23.3		
	level mi	NoMax real measure	;	
		m		
(air) gap leng	gth	l_gap		

•	,	<u> </u>	•	<u> </u>	
gaj	зI	len	gth		lgap

The value as specified by level (miNoMax) of the length of the (air) gap (in m) in the magnetic circuit of a soft magnetic part.

effective cross-sectional area A_e $$A_{\rm e}$$

The nominal effective cross-sectional area (in m^2) of a soft magnetic part.

NOTE This is the cross-sectional area of a hypothetical equivalent toroidal core of the same material properties.

$$A_e = \frac{C_1}{C_2}$$

where C_1 is the core factor C_1 (AAE777-005)

and
$$C_2 = \sum \frac{l}{A^2}$$

IEC 60050 (221) (1990)

AAE785-005	02	М3	A56
	simple	non-quantitative cod	е

signal type

signal type

Code of the type of signal applied to an electric, electronic or electromechanical component.

DATA = digital data LUM = ***luminance MCH = **monochrome MON = *mono SPE = *speech STE = *stereo TV = *television VID = video	
VID = video	

AAE786-005	01	M8	A56
	simple	non-quantitative code)

mode of operation operation mode

Code of the mode of operation of a function of an IC.

ASYN = asynchronous BID = bidirectional DOWN = down DUPL = duplex PAR = parallel SER = serial SIMP = simplex SYN = synchronous = unidirectional UNI UP = up

CSI functions

AAE787-005	02	M8	A56
	simple	non-qua	antitative code

input/output characteristic I/O char

Code of the input or output characteristic of a digital IC function.

3-ST	= three-state
ADDRES	= addressable
BUF	= buffered
DARL	= darlington
I2C	= I2C-bus capability
INV	= inverting
LTCH	= latching
NONINV	= non-inverting
O-COL	= open collector
O-DRN	= open drain
TOTEM	= totem pole
UNBUF	= unbuffered

AAE788-005	01	M3	A56
	simple	non-quantitative code	е
AD function		AD function	

Code identifying an analogue/digital signal function of an IC.

ADC	= analogue-digital converter
DAC	= digital-analogue converter
SPS	= speech synthesizer

AAE789-005	03	M8	A56
	simple	non-quantitative code	e

periodic/dc function per/dc function

Code identifying a periodic or dc function of an IC.

MONO	= **monostable
MOTDRI	= motor drive
MPVD	= *micro power voltage selector
OSC	= *oscillator
PLL	= *phase locked loop
POW	= power supply
PPS	= *power pack system
PUL	= **pulse
REG	= *regulator
SAW	= **sawtooth
SH	= **sample and hold
SIN	= **sinewave
SMPS	= *switch-mode power supply
SQUARE	= **square wave (multivibrator)
STA	= *stabilizer
TIM	= timing

AAE790-005	04	M8	A56
	simple	non-quantitative code	Э

CSI functions

Code of a combinatorial, sequential or interface function of an IC.

ADDER	= *adder
	= *arithmetic logic unit
	= arithmatic function
	- BCD counter
BUR	= bus driver
BICNI	= "binary counter
BIST	= bistable trigger element (flip-flop)
BOF	= butter
BUS	= *bus communication
CCONV	= code converter
CNT	= counter
СОМ	= communication
	(involving a protocol)
COMP	= comparator
D	= *D-type
DDR	= *display driver
DEC	= *decoder
DECNT	= *decade counter
DEMUX	= *demultiplexer
DMAC	= **DMA controller
DRI	= driver
DSKC	= *disk control
FDC	= *error detection/correction
ENC	= *encoder
GATE	= nate
	= yate
	= *interrunt controller
JK	= slotob type
LSH	
MAC	= memory access controller
MM	= *memory management
MUX	= *multiplexer
NAND	= *NAND
NOR	= *NOR
OR	= *OR
PARCH	= *parity checker
REC	= receiver
RS232	= *RS232
SCH	= Schmitt trigger
SEQ	= sequencer
SR	= *set/reset type
SUBTR	= *subtractor
SWITCH	= switch
TRANS	= transceiver
UART	= *UART
USART	= *USART
VME	= **VME bus
XNOR	= *exclusive-NOR
XOR	= *exclusive-OR

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AAE804-005	01 N level nom	IR23.3 real measure m	T03	
screen curva face-plate rac	t ure radius lius	r_scr r _{scr}		
The nominal r tube at screer	radius (in m) n centre.	of the screen of a dis	play	
AAE805-005	01 level nom	NR33.3ES2 real measure m	Т03	
pixel pitch he increment size	orizontal e	p_pix p _{pix}		
The nominal f colour display between iden screen.	norizontal pi / tube, deter tical phosph	tch (in m) of the pixels mined by the distance or stripes or dots on tl	s of a he	
AAE806-005	02 level min	NR14 integer measure 1	Q56	
horizontal re	solution	resolution H resolution H		
The minimum number of displayable pixels on the screen of a colour display tube in the horizontal direction.				
AAE816-005	02 simple	M17 string	A58	
optoelectron envelope	ic package	opt package		
Code of the encapsulation of an optoelectronic device.				
AAE834-005	01 simple	M175 string	A62	

component description description

Description of a component according to the manufacturer.

REMARKS:

Additional to the structured data in other data elements, free text description.

AAE838-005	01 simple	M17 string	A58
IC package code envelope code		IC package code	
Code of the p			

AAE839-005	01	M8	A56
	simple	non-quantitative cod	e
driving meth driving mode	od	MUX ratio	

multiplex ratio

Code of addressing the liquid crystal display, i.e. the number of segments (with dot matrix displays, the picture elements or pixels) that are connected together, and is given in a ratio value.

0.086111111	= 64
0.111111111	= 100
0.180555556	= 200
0.208333333	= 240
01:01	= DD = direct drive
01:02	= 2
01:03	= 3
01:04	= 4
01:08	= 8
01:16	= 16
01:32	= 32

REMARKS:

1. The number of common electrodes or segments per group determines the multiplex ratio. When the number of segments is n and the multiplex ratio is M then the number of connections used is n/M + M against n + 1 for direct drive.

2. Multiplex drive is when several electrodes of the segments and those of the back-planes are connected together.

AAE840-005	01	M3	A56
	simple	non-quantitative code	;

quality grade quality grade

Code of the quality grade (determined by the permissible storage temperature range) of a liquid crystal display.

- 10 = commercial grade = from -25 Cel to +70 Cel.
- 20 = extended grade = from -40 Cel to +90 Cel.

AAE841-005 01 level min	NR1 S4 Max integer measure Cel	H02	AAE846-005	level minTy	03 NR3 /pMax s	33.3ES2 real measur	T07 e
storage temperature	T_stg T _{stg}		turn-on time		t_on t _{on}		
The value as specified permissible storage te component.	by level (minMax) of the mperature (in Cel) of a	•	The value as s time (in s) ela input pulse tra luminance is s crystal display	specified by psing betwe ain and the 20 % of its r at specifie	v level (mi een the st moment tl naximum d driving	inTypMax) of art (10%) of he correspon value, of a lio method, typic	the the ding quid cal
AAE842-005 02 simple	NR2 S3.3 real measure V	E06	operating volt specified amb	age, drive fi ient temper	requency ature.	of 32 Hz and	а
operating voltage drive voltage	@V_oper @V₀per		AAE014-005 = AAF264-005 =	= ambient te = driving me	emperatur thod	re	
The peak-to-peak valu voltage (in V) applied variable.	e of the ac square wave to a liquid crystal display	, as a	REMARKS: t _{on} is the time pulse train and luminance is S t _{on} is also the delay time and	elapsing be d the mome 90 % of its r sum of t _d , o d t _e being th	etween the nt when t naximum r t _{d(on),} an e rise tim	e start of the the correspon value. id t _r (t _d being ie)	input Iding the
AAE843-005 01 level ma	NR2 S3.3 x real measure V	E06	AAE847-005	03	NR33.3	BES2	T07
dc voltage componer	nt V_dc V _{dc}			lever minny	S	ieai measui	e
The maximum limiting V) of the voltage of a l	value of the dc compone iquid crystal display.	ent (in	turn-off time		τ_οπ t _{off}		
AAE844-005 02 level mi	NR2 S3.3 nTypMax real measu Hz	F03 re	The value as s time (in s) ela input pulse tra luminance has value, of a lique method typica	specified by psing betwe ain and the s dropped to uid crystal o al operating	v level (mi een the er moment tl o 10 % of lisplay at voltage	inTypMax) of nd (90 %) of t he correspon its maximum a specified d drive frequer	the he ding riving
drive frequency	f_drv f _{drv}		32 Hz and a s	pecified am	bient tem	iperature.	
The value as specified frequency (in Hz) of th	by level (minTypMax) o e drive ac voltage of a li	f the quid	AAE014-005 = AAF264-005 =	= ambient te = driving me	emperatur thod	re	
crystal display at a spe AAF264-005 = driving	ecified driving method. method		REMARKS: t _{off} is the time pulse train and luminance has	elapsing be d the mome s dropped to	etween the nt when t o 10 % of	e end of the i the correspon its maximum	nput Iding

E01

real measure

AAE845-005 02

temperature of 25 Cel.

AAF264-005 = driving method

NR2 S..3.3

A/m²

The value as specified by level (minTypMax) of the specific current consumption (in A/m^2) of the activated display area of a liquid crystal display at specified driving method, drive frequency of 32 Hz, typical value of the operating voltage and an ambient

level minTypMax

specific current consumption I_s activated display area current $I_{\rm s}$

 t_{off} is also the sum of $t_{s,}$ or $t_{d(off),}$ and t_f (t_s being the storage time and t_f being the fall time).

AAE848-005	04	NR23.3	L32
	level min	real measure	
		1	

contrast ratio CNR brightness contrast ratio CNR luminance contrast ratio Lctr

The minimum guaranteed value of the maximum obtainable ratio between the brightness of the light areas to the brightness of the dark areas of a liquid crystal display at specified values of the operating voltage, ambient temperature and viewing angle.

AAE014-005 = ambient temperature AAE842-005 = operating voltage AAE993-005 = viewing angle

REMARKS:

The ratio is always a value greater than one. This means that, for a negative image mode, it is the ratio of the brightness of an addressed display zone to the brightness of a non-addressed zone and, for a positive image mode, it is the ratio of the brightness of the non-addressed zone to that of the addressed zone

AAE849-005	01 simple	M3 non-quantitative code	A58
display construction layout construction		display constr	
Code denotin	a the layout	and construction of a	liquid

Code denoting the layout and construction of a liquid crystal display.

- Α = alphanumeric
- в = multifunctional
- D = segment
- = dot-matrix display G Μ
- = segments
- = alphanumeric display Ν Ρ
- = multifunctional display = segment display R
- = alphanumeric display S
- Т = dot-matrix display
- U = multifunctional display
- = multifunctional display V
- W = dot-matrix display
- = shutter Ζ

AAE850-005	01	NR33.3ES2	Т03
	level nom	real measure m	

character length	l_char
	I _{char}

The nominal length (in m) of a character of a liquid crystal display module.

REMARKS: The length is measured in the horizontal direction. character height

AAE851-005	01	NR33.3ES2	Т03
	level nom	real measure	
		m	

h char h_{char}

The nominal height (in m) of a character of a liquid crystal display module.

REMARKS: The height is measured in the vertical direction.

AAE852-005	01	NR33.3ES2	Т03
	level nom	real measure	
		m	

l_{dot} The nominal length (in m) of a dot of a liquid crystal display module.

l_dot

REMARKS: The length is measured in the horizontal direction.

AAE853-005	01	NR33.3ES2	Т03
	level nom	real measure m	

dot height

dot length

h_dot h_{dot}

The nominal height (in m) of a dot of a liquid crystal display module.

REMARKS: The height is measured in the vertical direction.

AAE854-005	01 NR	Т03	
	level miNoMax	real measure	
	m		

viewing area length I view lview

The value as specified by level (miNoMax) of the length (in m) of the viewing area of a liquid crystal display module.

REMARKS:

The length is measured in the horizontal direction.

AAE855-005	01 NR33.3ES2		T03
	level miNoMax real measure		
	m		

viewing	area	height	I	h_view	
-		-	H	lview	

The value as specified by level (miNoMax) of the height (in m) of the viewing area of a liquid crystal display module.

REMARKS:

The height is measured in the vertical direction.

AAE856-005	01	M3	A58
	simple	non-quantitative code	e
illumination lighting mode	mode	illum mode	

Code of the illumination and image mode of a liquid crystal display.

- F = transflective, positive
- G = transflective, negative
- R = reflective, positive
- S = reflective, negative
- T = transmissive, positive
- U = transmissive, negative

REMARKS:

The mode in which the relevant data are made visible, viz:

Reflective:	ambient light reflected by a diffuse reflector in the LCD.
Transmissiv	display lit from behind by an artificial
e:	light source.
Transflectiv	combination of both above.
e:	
Positive:	image is black and remaining
	display area is grey when ON.
Negative:	image is grey and remaining display
	area is black when ON.

AAE857-005	01 NR14		K02		
	level minM	ax i	integer	measure	
		%			

operating	humidity	RH_	_amb
		RHa	mb

The value as specified by level (minMax) of the ambient humidity (in %) relative to saturation humidity of a humidity sensor.

ISO 9346 (1987)

AAE858-005 01 NR1..4 K02 level minMax integer measure

storage humidity	RH_stg BHata
	ivistg

The value as specified by level (minMax) of the storage ambient humidity (in %) relative to saturation humidity of a humidity sensor.

ISO 9346 (1987)

AAE859-005	01 simple	NR14 integer measure %	K02
relative hum	idity	@RH @RH	

The ambient humidity (in %) relative to saturation humidity applied to a humidity sensor, as a variable.

NOTES

 relative humidity: Actual humidity by volume, divided by humidity by volume at saturation, at the same temperature.
 humidity by volume: Mass of water vapour divided by the volume of the gaseous mixture.

ISO 9346 (1987)

AAE860-005	01 level nom	NR33.3ES2 real measure F	E09
reference ca	pacitance	C_ref C _{ref}	
The nominal	anaaitanaa	(in E) of a conceptive	

The nominal capacitance (in F) of a capacitive humidity sensor at reference conditions.

NOTE

Reference conditions are: T_{amb} = 25 Cel RH_{amb} = 43 % Frequency = 100 kHz

AAE861-005	02	NR:	33.3ES2	E09
	level	miNoMax	real measure	
		F		

sensitivity	s_H
	S _H

The value as specified by level (miNoMax) of the ratio of capacitance change and ambient relative humidity change (in F/%) in a range between specified relative humidities (RH₁ and RH₂).

AAE953-005 = relative humidity RH_2 AAE954-005 = relative humidity RH_1

AAE862-005	02 level nom	NR23.3 real measure (V/V)/(A/m)	E06
open-circuit	sensitivity	s_open S _{open}	
The nominal voltage and 2 magnetic field magnetic field temperature.	value of the) the produc I in (V/V)/(A, I sensor at s	ratio of 1) the output t of the supply voltage (m) of a semiconducto specified ambient	e and r
AAE014-005 :	= ambient te	emperature	
REMARKS: Sensitivity of ambient temp	a magnetic t erature and	field sensor at specifie expressed in (V/V)/(A	ed /m)
AAE863-005	01 level minMa	NR2 S3.3 ax real measure A/m	E17
magnetic fiel	d strength	Н Н	
The value as magnetic field sensor.	specified by I strength (ir	level (minMax) of the n A/m) of a magnetic fi	eld
AAE864-005	02 simple	M3 non-quantitative code	A56
pressure mo application mo	de ode	pressure mode	
Abbreviation of semiconductor	of the applic or pressure s	ation mode of a ensor.	
ABS = absol REL = atmospheric p	lute relative; pos pressure	/neg with respect to	
AAE865-005	01 level nom	NR23.3 real measure V/(VPa)	E06
sensitivity		s S	
The nominal v	value of the	ratio of 1) output volta	ge ire in

ct of supply voltage and the pressure in V/(V*Pa) of a semiconductor pressure sensor at specified ambient temperature.

AAE014-005 = ambient temperature

AAE866-005	02 NF	R2 S3.3	K15
	level minMax	real measure	
	Pa		

operating pressure P oper Poper

The value as specified by level (minMax) of the pressure (in Pa) of a pressure sensor.

AAE867-005	01	NR2 S3.3	E01
	level max	real measure	
		А	

output current I_open lopen

The maximum dc output current (in A) of a semiconductor inductive proximity sensor at specified supply voltage.

AAE102-005 = supply voltage

AAE868-005 01 NR1 S..4 H02 level minTypMax integer measure Cel

substrate temperature Τs Ts

The value as specified by level (minTypMax) of the temperature (in Cel) of the substrate of an inductive proximity sensor.

AAE869-005 02 NR1..4 T03 level minMax integer measure %

hysteresis in switching distance н differential travel н travel in switching distance

The value as specified by level (minMax) of the hysteresis (in %) of the switching distance of an inductive proximity sensor at specified supply voltage and ambient temperature.

AAE014-005 = ambient temperature AAE102-005 = supply voltage

AAE870-005	01 level nom	NR33.3ES2 real measure m	Т03
substrate ler	ngth	L_s Ls	

The nominal total length (in m) of the substrate of an hybrid inductive proximity sensor.

AAE871-005	01	NR33.3ES2	Т03
	level nom	real measure	
		m	

Ws

Ws

substrate width

The nominal total width (in m) of the substrate of an hybrid inductive proximity detector.

AAE872-005	02 level max	NR14 integer measure Hz	F03
operating fre	auency	fsw	

switching frequency f_{sw}

The maximum switching frequency (in Hz) of the input current, caused by an actuator that causes a switch-over at the output side of a hybrid inductive proximity sensor.

AAE874-005	01 level nom	NR14 integer measure Ω	E33
reference res	sistance	R Tref	

R_{Tref}

The nominal resistance (in ohms) of a semiconductor temperature sensor at a specified sensor current at the reference temperature.

AAE945-005 = current (dc)

REMARKS: Some sensors are polarity-independent.

AAE875-005	03	NR23.3	E33
	level nom	real measure	
		4	

resistance ratio R_Tamb/R_Tref R_Tamb/R_Tref R_{Tamb}/R_{Tref}

The nominal value of the ratio of the ohmic resistances of a temperature sensor at specified ambient temperature and its resistance at the reference temperature.

AAE014-005 = ambient temperature

AAE876-005	01 level nom	NR2 S3.3 real measure %/K	H02
			

temperature coefficient TC

The nominal reversible variation (in %/K) in the nominal resistance of a temperature sensor at reference temperature and specified sensor current.

AAE945-005 = current (dc)

AAE877-005	01	M3	A51
	simple	non-quantitative code	Э

working principle work principle

Code of the working principle of a delay line.

EL = electric PE = piezoelectric

AAE878-006 02 M..8 A51 simple non-guantitative code

delay line type delay line type

Code of the type of a delay line.

active cable
integrated circuit
passive
surface acoustic-wave
ultrasonic

AAE879-005	01	NR33.3ES2	E06
	level max	real measure	
		dB	

spurious signal level (3-tau) L_3\$t L_{3^T}

The maximum level (in dB) of the spurious signal at the output terminals of a delay line measured at three times the delay time (tau) and relative to the one tau signal at the output terminals at the nominal frequency and at specified reference conditions.

NOTE Reflections are measured using a 5 us long input burst signal.

AAE995-005 = reference conditions

REMARKS:

The one tau signal is the first burst appearing at the output terminals of a delay line at nominal delay with respect to the input signal.

AAE880-005	02	NR3 S3.3ES2	E06
	level max	real measure	
		dB	

spurious	signal	level	L_sig
			laia

The maximum level (in dB) of the spurious signal at the output terminals of a delay line measured at five and more times the delay time (tau) relative to the one tau signal at the nominal frequency and at specified reference conditions.

NOTE

Reflections are measured using a 5 us long input burst signal.

AAE995-005 = reference conditions

REMARKS:

The one tau signal is the first burst appearing at the output terminals of a delay line at the nominal delay with respect to the input signal.

AAE885-005	02 level nom	NR33.3ES2 real measure deg	E43
phase relatio	n	\$f phi	

The nominal phase difference (in deg) of the output signal to the input signal of a delay line.

AAE886-005	02 level max	NR33.3ES2 real measure s	Т07
phase delay	drift	t_drft t _{drft}	

The maximum phase delay drift (in s) of a delay line relative to the phase delay time at 25 Cel over the operating temperature range.

insertion loss	insertion loss
insertion gain	insertion loss
transducer attenuation	

The value as specified by level (miNoMax) of the insertion loss (in dB) of a delay line.

IEC 60050 (702) (1992)

REMARKS:

Insertion loss

The ratio, generally expressed in decibels, of the power at a point in a transmission path to the power at the same point after insertion of a two-port electrical network into the transmission path ahead of this point.

NOTE

If the ratio defining the insertion loss is less than one, its decibel value is negative, and its converse or opposite decibel value called 'insertion gain' may be used.

AAE888-005	01 NR	E06	
	level minMax	real measure	
	dB		

spurious signal level (2-tau) spur 2\$t spur 2t

The value as specified by level (minMax) of the spurious signal at the output terminals of a comb filter at twice the delay time (tau) and relative to one tau signal at the output terminals at the nominal frequency and at specified reference conditions.

NOTE

Reflections are measured using a 5 us long input burst signal.

AAE995-005 = reference conditions

REMARKS:

Bypassed delay line (used as comb filter).

AAE891-005	02 NR1 S4			H02
	level minM	ax	integer measure	
		Cel		

ambient temperature T_amb category temperature T_{amb}

⊺_{amb} Ta

The value as specified by level (minMax) of the ambient temperature (in Cel) of a component.

AAE892-005	01 simple	X3 non-quantitative code	A56	AAE897-005	02 level max	NR3 S. real measur A	.3.3ES2 e	E01
sensor input	quantity	input quantity						
Code of the p converts into	hysical qua an electric s	ntity which a sensor signal.		additional qu additional q-s delta I_CC pe	i iescent cu upply curre r input	rrent \$DI_CC nt ∆ I _{CC} AQSC	;	
HUM = relati LGT = light MGN = magr NCL = nucle PRS = press PRX = proxit TMP = temp	ve humidity aetic field st ar sure mity erature	rength		The maximum supply curren specified supply temperature r $(T_1 \text{ and } T_2)$. AAE102-005 = AAE958-005 =	n guarantee t (in A) per oly voltage, ange betwe = supply vol = temperatu	d additional c input, of an H zero output c en specified Itage are T 1	iuiescent o ICMOS IC current an temperatu	dc ;, at d a ıres
				AAE959-005 :	= temperatu	re T_2		
AAE893-005 sensor worki	simple	M3 non-quantitative code e work principle	A56 9	REMARKS: Applies to a s TTL compatib	ub-category le inputs.	of HCMOS	circuits wi	th
Code of the p	rinciple of v	vorking of a sensor.		Except for the $V_{CC} = 2.1 V (V_{CC} = 2.1 V)$	e relevant in / _{он} for TTL) a aithar ba	put, to which must be app at zoro (CND	a voltage blied, all of	ther
CAP = capac IND = induc MR = magn SEM = semic TUB = electri	citive ctive netoresistive conductor ron tube	9		AAE898-005	e level (V _{cc} o1 level minT <u>y</u>). NR33.3ES ypMax rea	2 al measure	с Е09 е
						F		
AAE895-005	01 simple	NR3 S3.3ES2 real measure A	E01	input capacit	ance	C_in C _{in}		
input current	t	@l_in @l _{in}		The value as capacitance (specified by in F) at the	/ level (minTy input of an IC	γpMax) of Σ.	the
The dc input o	current (in A	a) of an IC, as a variab	le.	AAE899-005	01 level max	NR3 S3.3E real measur A	:S2 e	E01
AAE896-005	02 level max	NR3 S3.3ES2 real measure A	E01	HIGH-state ir HIGH-level in	put curren put current	it I_IH I _{IH}		
quiescent cu quiescent sup	rrent oply current	I_q Iq Icc IDD		The maximum current (in A), the maximum voltage and ir specified tem	n guarantee of a TTL d supply volt n a tempera peratures (T	d HIGH-state igital functior age and spec ture range be Γ ₁ and T ₂).	dc input of an IC, offied input	at t
The maximum current (in A) specified supp temperature r $(T_1 \text{ and } T_2).$	n guarantee of a CMOS ply voltage, ange betwe	d total quiescent dc su or HCMOS digital IC, zero output current an en specified temperatu	ipply at id in a ures	AAE224-005 = AAE958-005 = AAE959-005 =	= input volta = temperatu = temperatu	age Ire T_1 Ire T_2		

AAE102-005 = supply voltage AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

REMARKS: Total quiescent supply current per package. All inputs must either be at zero (GND/V_{SS}) or at supply voltage level (V_{CC}/V_{DD}).

AAE900-005	01	NR3 S3.3ES2	E01
	level max	real measure	
		А	

LOW-state input currentI_IL

LOW-level input current I_{IL}

The maximum guaranteed LOW-state dc input current (in A), of a TTL digital function of an IC, at the maximum supply voltage, specified input voltage and in a temperature range between specified temperatures (T_1 and T_2).

AAE224-005 = input voltage AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

AAE901-005 01 NR3 S..3.3ES2 E01 level max real measure A

HIGH-state supply current I_CCH supply current I_{CCH}

The maximum guaranteed total HIGH-state dc supply current (in A), of a TTL digital IC, at the maximum supply voltage.

REMARKS:

Total HIGH-state supply current per package. Appropriate input signals (V_{IH} and/or V_{IL}) must be applied to obtain a HIGH-state at all outputs.

AAE902-005	01	NR3 S3.3ES2	E01
	level max	real measure	
		А	

LOW-state supply current I_CCL supply current I_{CCL}

The maximum guaranteed total LOW-state dc supply current (in A) of a TTL digital IC at the maximum supply voltage.

REMARKS:

Total LOW-state supply current per package. Appropriate input signals (V_{IH} and/or V_{IL}) must be applied to obtain a LOW-state at all outputs.

AAE903-005	02	NR3 S3.3ES2	E01
	level max	real measure	
		А	

off-state supply current I_CCZ supply current I_{CCZ}

The maximum guaranteed total off-state dc supply current (in A), of a 3-state TTL digital IC, at the maximum supply voltage and in a temperature range between specified temperatures (T_1 and T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

REMARKS:

Total off-state supply current per package. Appropriate disabling signals must be applied to the relevant inputs.

AAE904-005	02 simple	NR33.3ES2 real measure s	Т07
fall time		@t_f @t _f	

The fall time (in s) of a step function change (90 % to 10 %) of a signal applied to an electric-electronic or electromechanical component, as a variable.

AAE905-005	01	NR33.3ES2	H07
	level min	real measure	
		W/K	

dissipation derating factor $$P_{der}$$

The minimum required power dissipation derating factor (in W/K) of an electric-electronic or electromechanical component, at ambient temperatures higher than the rated temperature.

AAE906-005	01 simple	NR33.3ES2 real measure Ω	E33
h :44			

base-emitter resistance @R_BE @R_{BE}

The resistance (in ohms) connected between base and emitter terminals of a bipolar transistor, as a variable.

AAE907-005	5 01 simple	M3 non-quantitative coc	A52 le	AAE918-005	01 level max	NR33.3ES2 real measure	E09
stability		stability				- <i>K</i> A	
Code of the quantity is re	condition of emoved.	a relay after the ener	gising	coll-contact	capacitanc	e C_cl(cont) C _{cl(cont)}	
BIS = MON =	· bistable · monostable			The maximun contact memb	n parasitic c per and the	apacitance (in F) bety coil of a relay.	ween a
AAE911-005	01 level nom	NR33.3ES2 real measure	E01	AAE919-005	01 level max	NR33.3ES2 real measure F	E09
energising	current (dc)	∩ I_in(dc)		contact capa	icitance	C_cont C _{cont}	
The nominal the coil of a	dc current (relay, enable	in A) which, when app es it to operate at the	olied to	The maximun two contact m	n parasitic on nembers of	apacitance (in F) bety a relay.	ween
IEC 61810-1	(1998)			AAE920-005	02 level max	NR33.3ES2 real measure Ω	E33
AAE912-005	6 01 level nom	NR33.3ES2 real measure A	E01	contact resis contact-circui	s tance t resistance	R_cont R _{cont}	
energising o	current (ac)	I_in(ac) I _{in(ac)}		The maximun contacts of a	n resistance connector,	e (in ohms) of a mated relay or switch.	l set of
The nominal the coil of a	ac current (relay, enable	in A) which, when app es it to operate at the	olied to	NOTE Measuring pr (1997)	ocedure acc	cording to IEC 61810-	7
IEC 61810-1	(1998)			IEC 60050 (5	81) (1978)		
AAE915-005	6 01 level nom	NR33.3ES2 real measure	E06	AAE921-005	02 level nom	NR14 integer measure 1	Q56
energising	voltage (dc)	v U_in(dc)		number of co number of po	ontact asse les	embliesN_cont(assy) N _{cont(assy)})
The nominal the coil of a	dc voltage (relay, enable	in V) which, when ap es it to operate.	plied to	The number o switch.	of contact a	ssemblies of a relay o	or
IEC 61810-1	(1998)			AAE922-005	03 level min	NR33.3ES2 real measure	Q59
AAE916-005	01 level nom	NR33.3ES2 real measure V	E06	mechanical l	ife	' N_cycl N _{cycl}	
energising	voltage (ac)	U_in(ac) U _{in(ac)}		The minimum cycles of a re	guaranteed lay or switc	d number of operating h without electric load	J J.
The nominal the coil of a	ac voltage (relay, enable	in V) which, when ap es it to operate.	plied to	NOTE After the test	the contact	resistance shall be w	vithin
IEC 61810-1	(1998)						

AAE923-005	02	NR33.3ES2	Т07
	level max	real measure	
		S	

t_oper

toper

operate time

The maximum time (in s) between the instant the energising power is applied and the instant the relay completes the specified function.

IEC 61810-1-00 (1998)

AAE924-005	02	NR1 S4	Т07
	level max	integer measure	
		S	
release time		t_rel	

t_{rel}

The maximum time (in s) between the instant the energising quantity is applied and the instant when the relay resets.

IEC 61810-7 (1997)

REMARKS:

A relay releases when it changes from its operate condition to its release condition.

AAE925-005	01 simple	M8 non-quantitative code	A56
contact mem	ber force	contact force	
Code of the k member of a	ind of force relay.	applied to the contact	

EM = electromechanical relay REED = reed (magnetic) THER = thermal electrical relay

AAE926-005	01	X3	A56
	simple	non-quantitative code	Э

actuating quantity actuating qnty

Code of the actuating quantity of a switch.

MEC = mechanical switch

- REE = reed switch
- THE = thermostatic switch

AAE928-005	02	NR23.3	E49
	level max	real measure VA	

contact power (ac) P_cont(ac)

P_{cont(ac)}

The maximum switching apparent power (in VA) as a product of the actual ac contact voltage and the actual ac contact current applied in combination to a switch or relay at resistive load.

REMARKS:

The apparent power is less then the product of contact current and contact voltage.

AAE929-005	02	NR14	Q56
	level nom	integer measure	
		1	

The number of stable positions of a switch.

AAE930-005	02 level max	NR1 S4 integer measure s	Т07
bounce time		t_bnc t _{bnc}	

The maximum time interval (in s) between the instant when the contact circuit first closes (opens) and the instant when the circuit is finally closed (opened) of a relay or switch.

IEC 60050 (446) (1983)

AAE931-006	01	M8	A56
	simple	non-quantitative code	Э

switch actuation actuation

Code of the actuator of a mechanical switch.

CORD	= cord-operated
LEVER	= lever/toggle
MEM	= membrane
PULL	= push-pull
PUSH	= push-button
ROCKER	= rocker button
ROTARY	= rotary
SLIDE	= slide
TUMBLE	= tumbler

K09 NR3..3.3ES2 T03 AAE932-005 02 NR2..3.3 AAE937-005 01 level nom real measure simple real measure N m actuating force F act tie-point distance @s tp-body Fact @stp-body The operating nominal force (in N) on the actuator of The distance (in m) measured along the leads from tie point to the body of a diode, as a variable. a mechanical switch to cause it to change position. IEC 60050 (581) 1978) AAE938-005 02 NR2..3.3 E44 real measure simple AAE933-005 01 NR3..3.3ES2 E01 0 simple real measure load impedance @|Z_L| А $@|Z_{L|}$ current (ac) @l_ac @l_{ac} The modulus of the complex impedance (in ohms) of a load connected to the output of an electric-The rms sinusoidal current (in A) applied to an electronic or electromechanical component, as a electric-electronic or electromechanical component, variable. as a variable. Q56 AAE940-005 02 NR1..4 AAE934-005 01 NR3..3.3ES2 F03 integer measure level nom simple real measure 1 Ηz number of cells in series N cell bandwidth @B N_{cell} @B The actual number of cells in the series of a battery. The range of frequencies (in Hz) applied to a electric/ electronic or electromechanical component, NR2..3.3 as a variable. AAE941-005 02 E06 level max real measure **REMARKS:** v See also AAE963-005 AND AAE964-005 voltage during charge V_chrg V_{chrg} NR3..3.3ES2 F03 AAE935-005 01 real measure The maximum voltage (in V) of a secondary battery simple during charge with a constant current of 0,1 times Hz the value of the nominal capacity. chopping frequency @f_chop IEC 60050 (482) (2004) @fchop The number of interruptions (in Hz) of a light beam at regular intervals, applied to an optoelectronic AAE942-005 02 NR3..3.3ES2 T07 device, as a variable. level min real measure d AAE936-005 02 NR2..3.3 E44 storage life t_stg shelf life real measure simple t_{stg} 0 The minimum duration of storage (in d) at specified source impedance @|Z_S| ambient temperature at the end of which a cell or battery retains 80 % of its original capacity. @|Z_{SI} The modulus of the complex impedance (in ohms) of AAE014-005 = ambient temperature a source connected to the input of an electricelectronic or electromechanical component, as a IEC 60050 (482) (2004)

variable.

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AAE943-005	03 level minM	NR33.3 ax real mea s	ES2 sure	T07	AAE953-005	01 simple	NR14 integer measure %	K02
charge time		t_chrg t _{chrg}			relative humi	idity RH_2	@RH_2 @RH2	
The value as (in s) after wh attains the ful temperature a	specified by hich a discha ly charged s and at speci	v level (minMax arged seconda state at specifi fied direct curr	x) of the ry batter ed ambie ent.	time 'y ent	The upper rel range applied	ative humid to a humidi	ity RH₂ of the humidit ity sensor, as a variab	y ble.
AAE014-005 AAE945-005	= ambient te = current (d	emperature c)			AAE954-005	01 simple	NR14 integer measure %	K02
IEC 60050 (4	82) (2004) o	lerived			relative humi	idity RH_1	@RH_1 @RH₁	
AAE944-005	02 level max	NR14 integer measu 1	ure	Q56	The lower rela range applied	ative humidi to a humidi	ty RH₁ of the humidity ity sensor, as a variat	/ ole.
number of ch cycle life	narge cycle	s N_chrg N _{chrg}			AAE955-005	03 simple	NR23.3 real measure W	E49
The maximum the end of wh of its nominal	n number of ich the seco capacity at	charge/discha ondary battery specified dura	rge cyclo retains 8 Ition.	es at 30 %	output power load power	r	@P_L @P∟	
AAE028-005 -	= duration				The output po electromecha	ower (in W) o nical compo	of an electric-electron onent, as a variable.	ic or
AAE945-005	01 simple	NR33.3ES2 real measure A		E01	IEC 60050 (7	13) (1998)		
current (dc)		@I_dc @I _{dc}			AAE956-005	01 simple	NR33.3ES2 real measure Ω	E33
The direct cur electronic or e variable.	rrent (in A) a electromech	applied to an e anical compon	lectric, ient, as a	a	resistance		@R @R	
AAE952-005	02	NR14		E01	The resistanc an electric-ele	e (in ohms) ectronic com	applied to the termina applied to the termina apponent, as a variable	als of
	simple	integer measu 1	ure		AAE957-005	01 simple	NR33.3ES2 real measure	E09
forced gain	ain sat	@h_FEsat @h _{FEsat}			capacitance		⊢ @C	
The dc curren bipolar transis	nt gain in the stor, as a va	e saturation co iriable.	ndition c	of a			@C	
					A value of a c terminals of a electromecha	apacitance n electric, e nical compo	(in F) applied to the electronic or onent, as a variable.	

AAE958-005	01 simple	NR1 S4 integer measure Cel	H02
temperature	T_1	@T_1 @T₁	

The lower temperature T_1 (in Cel) of the temperature range applied to a component, as a variable.

REMARKS:

See AAE959-005 for upper temperature T_2 . If T_2 is left blank the upper limit of the range is determined by the maximum operating temperature. Equal values of T_1 and T_2 may be used to indicate a single specific temperature.

AAE959-005	01 simple	NR1 S4 integer measure Cel	H02
temperature	T_2	@T_2 @T ₂	

The upper temperature T_2 (in Cel) of the temperature range applied to a component, as a variable.

REMARKS:

See AAE958-005 for lower temperature T_1 . If T_1 is left blank the lower limit of the range is determined by the minimum operating temperature. Equal values of T_1 and T_2 may be used to indicate a single specific temperature.

AAE960-005	01 level max	NR33.3ES2 real measure A	E01
ripple curren	t	l_rppl I _{rppl}	

The maximum rms alternating current (in A) of specified frequency which may be applied continuously to a fixed electrolytic capacitor at specified ambient temperature.

AAE014-005 = ambient temperature AAE029-005 = frequency

AAE961-005	01 simple	NR2 S3.3 real measure V	E06
voltage V_1		@V_1 @V₁	

The lower voltage V_1 (in V) of the voltage range applied to an electric-electronic or electromechanical component, as a variable.

AAE962-005	01 simple	NR2 S3.3 real measure V	E06
voltage V_2		@V_2 @V₂	

The upper voltage V_2 (in V) of a voltage range applied to an electric-electronic or electromechanical component, as a variable.

AAE963-005	01 simple	NR33.3ES2 real measure Hz	F03
frequency f_	1	@f_1 @f ₁	

The lower frequency f_1 (in Hz) of the frequency range applied to an electric-electronic or electromechanical component, as a variable.

AAE964-005	01 simple	NR33.3ES2 real measure Hz	F03
frequency f_	2	@ f_2 @f ₂	

The upper frequency f_2 (in Hz) of the frequency range applied to an electric-electronic or electromechanical component, as a variable.

AAE965-005	01	M8A83
	simple	non-quantitative code

component status status

Code of the status of a component according to the manufacturer.

= development type
= maintenance type
= production type or current type

AAE966-005	01	NR23.3	E01
	level max	real measure	
		А	

average forward currentl F(AV) I_{F(AV)}

The maximum average forward current (in A) of a rectifier diode or signal diode at specified temperature of a temperature type.

AAE683-005 = temperature type AAE685-005 = temperature

AAE968-005	01	M35	A56
	simple	string	

complementary type complement type

Manufacturer's type number code of a transistor with reverse polarity, complementary to the transistor under consideration.

REMARKS:

NPN (N-channel) equivalent of a PNP (P-channel) transistor and vice versa.

AAE969-005	01	M17	A55
	simple	string	

amplifier package amp package envelope

Code of the package of an amplifier.

AAE971-007	01	X8	A56
	simple	non-quantitative code	е

signal handling type signal handling

Code of the signal handling type of a transistor.

POWT	= power signal transistor
SIGT	= small signal transistor

AAE973-005 01 M...8 A55 non-quantitative code simple

FET-technology FET technology

Code of the technology of a field-effect transistor.

JFET = junction FET MOSFET = metal oxide semiconductor FET AAE974-005 02 NR2 S..3.3 level max real measure

input standing wave ratio VSWR in **VSWR**in

The maximum voltage standing wave ratio at the input of an amplifier at specified values of supply voltage, temperature of a temperature type and frequency range between specified frequencies (f1 and f_2).

AAE102-005 = supply voltage AAE683-005 = temperature type AAE685-005 = temperature AAE963-005 = frequency f 1AAE964-005 = frequency f_2

REMARKS:

The source and load impedance are assumed to be equal to the characteristic impedance.

AAE975-005	02	NR2 S3.3	E06
	level max	real measure	
		1	

output standing wave ratio VSWR_out **VSWR**out

The maximum voltage standing wave ratio at the output of an amplifier at specified values of supply voltage, temperature of a temperature type and frequency range between specified frequencies (f1 and f_2).

AAE102-005 = supply voltage AAE683-005 = temperature type AAE685-005 = temperature AAE963-005 = frequency f_1 $AAE964-005 = frequency f^2$

REMARKS:

The source and load impedance are assumed to be equal to the characteristic impedance.

AAE976-005	02	NR33.3	ES2	T07
	level minTy	рМах	real measu	re
		S		

rise time t_r

The value as specified by level (minTypMax) of the time (in s), measured between the 10 % value and the 90 % value of the drain current swing of a fieldeffect transistor at reference conditions.

AAE995-005 = reference conditions

REMARKS:

- The internal generator resistance and gate-1. source resistance are assumed to be 50 Ω .
- 2 The reference conditions at specifying times for field-effect transistors are normally:
 - drain-source voltage
 - gate-source voltage
 - drain current (dc)
 - reference temperature

AAE977-005	02	NR33.3E	S2	Т07
	level minTy	oMax r s	eal	measure
fall time		t_f		

fall time

The value as specified by level (minTypMax) of the time (in s), measured between the 90 % value and the 10 % value of the drain current swing of a fieldeffect transistor at reference conditions.

AAE995-005 = reference conditions

REMARKS:

- The internal generator resistance and the gate-1. source resistance are assumed to be 50 Ω .
- 2. The reference conditions at specifying times for field-effect transistors are normally:
 - drain-source voltage
 - gate-source voltage
 - drain current (dc)
 - reference temperature

AAE978-005	02	NR33.3ES2		T07
	level	minTypMax	real meas	sure
		c		

turn-on time t on ton

The value as specified by level (minTypMax) of the time (in s), measured between the 10 % value of the gate-source voltage change and the 90 % value of the drain current swing of a field-effect transistor at reference conditions.

AAE995-005 = reference conditions

REMARKS:

- The internal generator resistance and the gate-1. source resistance are assumed to be 50 Ω .
- 2 $t_{on} = t_d + t_{r.}$
- 3. The reference conditions at specifying times for field-effect transistors are normally:
 - drain-source voltage
 - gate-source voltage
 - drain current (dc)
 - reference temperature

AAE979-005	02	NR3:	3.3ES2	Т07
	level	minTypMax	real	measure
		S		

turn-off time t_off toff

The value as specified by level (minTypMax) of the time (in s), measured between the 90 % value of the gate-source voltage change and the 10 % value of the drain current swing of a field-effect transistor at reference conditions.

AAE995-005 = reference conditions

REMARKS:

- 1. The internal generator resistance and the gatesource resistance are assumed to be 50 Ω .
- $t_{off} = t_{d(off)} + t_{f.} t_{d(off)}$ is also known as t_s 2. (storage time).
- The reference conditions at specifying times for 3 field-effect transistors are normally:
 - drain-source voltage
 - gate-source voltage
 - drain current (dc)
 - reference temperature

AAE980-005	02	NR33.	3ES2	Т07
	level n	ninTypMax	real me	asure
		S		

delay	(on)	time	
-------	------	------	--

t_d(on) t_{d(on)}

The value as specified by level (minTypMax) of the time (in s), measured between the 10 % value of the gate-source voltage change and the 10 % value of the drain current swing of a field-effect transistor at reference conditions.

tд

AAE995-005 = reference conditions

REMARKS:

- The internal generator resistance and gatesource resistance are assumed to be 50 Ω.
- 2. The reference conditions at specifying times for field-effect transistors are normally:
 - drain-source voltage
 - gate-source voltage
 - drain current (dc)
 - reference temperature

AAE981-005	02	NR33.3	ES2	то)7
	level minTy	/pMax	real	measure	
		S			

delay (off) time

t_{d(off)} t_s

t_d(off)

The value as specified by level (minTypMax) of the time (in s), measured between the 90 % value of the gate-source voltage change and the 90 % value of the drain current swing of a field-effect transistor at reference conditions.

AAE995-005 = reference conditions

REMARKS:

- 1. The internal generator resistance and the gatesource resistance are assumed to be 50 Ω .
- 2. $t_{d(off)}$ is also known as t_s (storage time).
- 3. The reference conditions at specifying times for field-effect transistors are normally:
 - drain-source voltage
 - gate-source voltage
 - drain current (dc)
 - reference temperature

input capacitance C_iss short-circuit input capacitance C_{iss}

The value as specified by level (minTypMax) of the guaranteed capacitance (in F) between gate and source connections, with drain-source connections short-circuited for ac voltage, of a field-effect transistor at specified frequency, drain-source voltage, and gate-source voltage.

AAE029-005 = frequency AAE376-005 = drain-source voltage AAE381-005 = gate-source voltage

IEC 60747-8 (2000)

AAE983-005	03 NR33.3ES2			E09	
	level minT	урМах	real me	asure	
		F			

output capacitance C_oss short-circuit output capacitance C_{oss}

The value as specified by level (minTypMax) of the guaranteed capacitance (in F) between drain and source connections, with gate-source connections short-circuited for ac voltage, of a field-effect transistor at specified frequency, drain-source voltage, and gate-source voltage.

AAE029-005 = frequency AAE376-005 = drain-source voltage AAE381-005 = gate-source voltage

IEC 60747-8 (2000)

AAE984-005	01 level nom	NR33.3ES2 real measure m	Т03
digit height		h_dig h _{dig}	

The nominal height (in m) of a digit of a liquid crystal display.

REMARKS:

The height is measured in the vertical direction.

AAE985-005	02 simple	M8 non-quantitative code	A62	AAE991-005	01 simple	M17 non-quantitati	A58 ve code		
connection r	nethod	connection		preferred vie	wing direct	tion view dire	ection		
Code of the n crystal display	nethod of a g	connection to a liquid		Code of the v display.	iewing direc	tion of a liquid	crystal		
FIXPIN = fixed pin FOIL = foil RUBBER = conductive rubber			10 o'clock = 150 deg in the plane of the LCD. 12 o'clock = 90 deg in the plane of the LCD. 3 o'clock = 0 deg in the plane of the LCD. 5 o'clock = 300 deg in the plane of the LCD.						
AAE986-005	01 level nom	NR33.3ES2 real measure m	Т03	9 o'clock = REMARKS:	180 deg in t	the plane of the LCD.			
dot spacing		dot spacing dot spacing		During the ma layers of an L preferred view	anufacturing CD can be t ving directio	process the o treated so that on can be built	ess the orientation d so that a so-called be built in. In this		
The nominal space (in m) between two adjacent dots of a liquid crystal display module.			direction the display contrast is maximum. A 6 o'clock view means a preferred view from below (270 deg in the plane of the LCD), whereas a 12 o'clock (or 90 deg) preferred view implies a preference from						
AAE987-005	02 level max	NR33.3ES2 real measure W	E49	above. The ex account.	xact elevatio	ion angle is not taken into			
power consu	mption	P_cons P _{cons}		AAE992-005	02 level minTy	NR2 S3.3 /pMax real V	E06 measure		
The maximum guaranteed power consumption (in W) of an electric/electronic or electromechanical component		(in W)	operating vo drive voltage	ltage	V_oper V _{oper}				
AAE989-005	01 simple	M17 string	A62	The value as peak-to-peak applied to a li method, drive temperature of	specified by ac square-v quid crystal frequency of 25 Cel.	y level (minTypMax) of the wave voltage (in V) to be I display, at specified driving of 32 Hz and ambient ethod			
backlight		backlight		AAF264-005 :	= drivina me				
The product code of a backlight used with a liquid			uid		annig me				
	01	NB3 33ES2	EUQ	AAE993-005	02 simple	NR23.3 real measure	T01		
AAE330-003	level minTypMax real measu F/m ²	ire	viewing angl	e	@\$a_view				
specific capacitance C_s C _s		Angle (in deg) between viewing direction and the perpendicular to the plane of the liquid crystal display, as a variable.							
The value as specified by level (minTypMax) of the specific capacitance (in F/m^2) between segment and back-plane of a liquid crystal display at the typical operating voltage, drive frequency of 32 Hz, ambient temperature of 25 Cel and specified driving method.									

AAF264-005 = driving method
AAE994-005	01 simple	NR33.3ES2 real measure A	E01
reverse curre	ent	@I R	

@I_R

reverse current

The direct current (in A) flowing through a diode or optoelectronic device, in the reverse direction, as a variable.

AAE995-005	02	M175	A59
	simple	string	

reference conditions @reference cond

Description of the reference conditions applied to a component as a variable.

NOTE

Reference conditions may be used when a number of characteristics are specified at a common set of conditions.

AAE996-005	02 level nom	NR14 integer measure 1	Q56
number of se	ections	N_sect N _{sect}	

The number of sections of a capacitive antenna.

REMARKS:

Applies to extendible antennas.

AAE997-005	01 level nom	NR33.3ES2 real measure m	Т03
extended len	gth	l_ext l _{ext}	

The nominal length (in m) of a capacitive antenna when all sections are in the extended position.

AAE998-005	01 level nom	NR33.3ES2 real measure m	Т03
non-extende	d length	l_next I _{next}	

The nominal length (in m) of a capacitive antenna when all sections are in the non-extended position.

AAF014-005	03
	simple

M..8A56 non-quantitative code

driving feature

drive feature

Code of the driving feature of a component.

CROSDR	= crossed recessed
HEX	= hexagon
HEXSKT	= hexagon socket
PHILL	= *phillips
POZI	= *pozidriv
SLOT	= slotted
SQUARE	= square
SUPA	= *supadriv
TORX	= torx
Х	= **type X

REMARKS:

For electric-electronic components the values hexagon, crossed recessed and slotted are valid.

AAF043-005	03	M35	A61
	simple	string	

national standard nat standard

Reference to a regional or national standard describing a component.

REMARKS :	
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AFNOR	= Association Francaise
	de Normalisation
ANSI	= American National Standards
	Institute
ASTM	= American Society for Testing
	and Materials
BEC	= Belgisch Elektrotechnisch Comite
BIN	= Belgisch Instituut voor Normalisatie
BSI	= British Standards Institution
CSA	= Canadian Standards Association
DIN	= Deutsches Institut fur Normung
MIL	= Military specification
NNI	= Nederlands Normalisatie Instituut
UL	= Underwriters Laboratories
UNE	= Instituto Nacional de
	Racionalizacion y Normalizacion
	(IRANOR)
UNI	= Ente Nazionale Italiona
	di Unificiazione

AAF044-005	02	NR33.3ES2
	level nom	real measure
		0

|Z_out| output impedance |Z_{out|}

The nominal value of the modulus of the output impedance (in ohms) of a filter at specified frequency.

AAE029-005 = frequency

IEC 60050 (131) (2002)

AAF045-005	02 level max	NR23.3 real measure N	K09	AAF050-005	02 N level max	NR33.3ES2 real measure V	E06
engaging for insertion force	ce e	F_eng F _{eng}		release volta	ige (ac)	U_rel(ac) U _{rel(ac)}	
The maximum connector wit	n force (in N h its mating) required to engage a part.	a	The maximum energised rela	n ac voltage ay releases.	(in V) at which	an
NOTE This force inc	ludes the ef	fect of a coupling, loc	king	IEC 61810-7	(1997)		
IEC 60050 (58	81) (1978)			AAF051-005	01 simple	M8 non-quantitati	A58 ve code
A A FO 4 C 00 F	0.0		Kaa	locking devi	ce	locking devic	e
AAF046-005	02 level min	NR23.3 real measure N	KU9	Code of the lo	ocking devic	e of a connect	or.
separating fo withdrawal for	orce rce	F_sep F _{sep}		BAYON = SCREW = SNAP =	bayonet screw snap (clic)		
The minimum connector from	force (in N) m its mating	required to separate part.	а	IEC 60050 (5	81) (1978)		
NOTE This force inc or similar dev	ludes the ef ice.	fect of a coupling, loc	king	AAF052-005	01 level miNo	NR33.3ES2 Max real Hz	F03 measure
IEC 60050 (58	81) (1978)			resonance fr	equency	f_rsn f _{rsn}	
AAF047-005	02 simple	M3 non-quantitative code	A56	The value as resonance fre	specified by equency (in	y level (miNoMa Hz) of an induc	ax) of the tor.
screening		screening					
Code of the s	creening of	a transformer.		AAF053-005	01 level nom	NR33.3ES2 real measure	Т03
PRI = prima SEC = secor	ary ndary			terminal leng	gth beside I	housing I _{term}	l_term
AAF048-005	02 level nom	NR14 integer measure 1	Q56	The nominal l a right angle the housing.	ength (in m or 45 degre) of that part of e connector tha	a terminal of at is beside
number of pr	imary coils	N_pri(coil) N _{pri(coil)}					
The number c or relay.	of primary co	oils of a power transfo	rmer				
AAF049-005	01 level nom	NR33.3ES2 real measure m/s	F03				
speed		v_mot v _{mot}					

The nominal speed (in m/s) of a linear motor.

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of

AAF055-005	02 NR3	3.3ES2	Т07
	level minTypMa s	x real	measure
	-		

delay (off) time t_d(off) carrier storage time t_{d(off)} t。

The value as specified by level (minTypMax) of the time (in s), measured between the 90 % value of the input pulse and the 90 % value of the corresponding output pulse of a bipolar transistor at reference conditions.

AAE995-005 = reference conditions

REMARKS:

The reference conditions at specifying times for bipolar transistors are normally:

- supply voltage
- collector current
- base current
- reference temperature

AAF056-005	02 NI	R33.3ES2	Т07
	level minTypN s	lax real	measure

delay (on) time	t_d(on)
delay time	t _{d(on)}
	t _d

The value as specified by level (minTypMax) of the time (in s), measured between the 10 % value of the input pulse which is switching-on the transistor, and the 10 % value of the corresponding output pulse of a bipolar transistor at reference conditions.

AAE995-005 = reference conditions

REMARKS:

The reference conditions at specifying times for bipolar transistors are normally:

- supply voltage

- collector current
 base current
- reference temperature

S

time	t_f
	t _f

The value as specified by level (minTypMax) of the time (in s) required for the output pulse to fall from a stated high percentage (usually 90 %) to a stated lower percentage (10 %) of its maximum value, of a bipolar transistor at reference conditions.

AAE995-005 = reference conditions

REMARKS:

The reference conditions at specifying times for bipolar transistors are normally:

- supply voltage
- collector current
- base current
- reference temperature

AAF058-005	02 NR3	3.3ES2	Т07
	level minTypMax	real measu	ire
	S		
riaa tima	6		

rise time

The value as specified by level (minTypMax) of the time (in s) required for the output pulse to rise from a stated low percentage (usually 10 %) to a stated higher percentage (90 %) of its maximum value, of a bipolar transistor at reference conditions.

AAE995-005 = reference conditions

REMARKS:

The reference conditions at specifying times for bipolar transistors are normally:

- supply voltage
- collector current
- base current
- reference temperature

fall

AAF059-005	02	NR33.3	ES2	Т07
	level minTy	l minTypMax rea		measure
		S		

t_off t_{off}

The value as specified by level (minTypMax) of the time (in s) elapsing between the end of the input pulse (at least 90 % of its maximum value) and the moment the corresponding output signal falls to 10 % of its maximum value, of a bipolar transistor at reference conditions.

AAE995-005 = reference conditions

IEC 60747-8 (2000)

REMARKS:

turn-off time

- 1. $t_{off} = t_s + t_{f.}$
- 2. The reference conditions at specifying times for bipolar transistors are normally:
 - supply voltage
 - collector current
 - base current
 - reference temperature

AAF060-005	02	NR33.3	ES2	Т07
	level minTy	рМах	real	measure
		S		

t_on

ton

turn-on time

The value as specified by level (minTypMax) of the time (in s) elapsing between the start of the input pulse (usually 10% of its maximum value) and the moment the corresponding output signal is at least 90 % of its maximum value, of a bipolar transistor at reference conditions.

AAE995-005 = reference conditions

IEC 60747-8 (2000)

REMARKS:

- 1. $t_{on} = t_d + t_{r.}$
- 2. The reference conditions at specifying times for bipolar transistors are normally:
 - supply voltage
 - collector current
 - base current
 - reference temperature

AAF061-005	01 level nom	NR33.3ES2 real measure m	Т03
step length		l_step	

The nominal length (in m) between adjacent step positions of a linear stepping motor.

01000	1012000(2)
AAF062-005 02 I level max	NR33.3ES2 K09 real measure N
holding force	F_hold F _{hold}
The maximum steady for externally applied to the linear stepping motor wit stepping.	ce (in N) that can be armature of an excited hout causing continuous
AAF063-005 02 simple	NR14 E01 integer measure A
rms on-state current	@I_T(RMS) @I _{T(RMS)}
The rms on-state current anode to the cathode in a variable.	(in A) flowing from the a thyristor or triac, as a
IEC 60747-6 (2000)	
AAF064-005 02 level minT	NR33.3ES2 L29 ypMax real measure W/sr
radiant intensity	l_e l _e
The value as specified by radiant intensity (in W/sr diode at specified forwar of a temperature type.	y level (minTypMax) of the) of an infrared emitting d current and temperature
AAE274-005 = forward c AAE683-005 = temperatu AAE685-005 = temperatu	urrent ire type ire
AAF065-005 02 level typ	NR33.3ES2 L10 real measure W
total radiant output pov radiant flux	ver \$f_e φ _e P _{out}

The typical total radiant output power (in W) of an infrared emitting diode at specified forward current and temperature of a temperature type.

AAE274-005 = forward current AAE683-005 = temperature type AAE685-005 = temperature

AAF066-005	02	NR3 S3.3ES2	E06
	level min	real measure	
		17	

collector-emitter breakdown voltage V_(BR)CEO V(BR)CEO

The minimum breakdown voltage (in V) between collector and emitter terminals of a bipolar transistor or photocoupler when the collector terminal is biased in the reverse direction with respect to the emitter terminal and when the base terminal is opencircuited, at specified collector current and temperature of a temperature type.

AAE406-005 = collector current (dc) AAE683-005 = temperature type AAE685-005 = temperature

JESD 77B (2000)

REMARKS:

The collector terminal is considered to be biased in the reverse direction when it is made positive for NPN transistors or negative for PNP transistors with respect to the emitter terminal.

AAF090-005	02 level max	NR33.3ES2 E real measure Ω	
dc resistanc	e	R_dc R₀c	

The maximum resistance to direct current (in ohms) of a coil of a wirewound component.

REMARKS:

Examples of wirewound components: inductor, moving conductor loudspeaker, motor, relay, transformer.

AAF096-005	01	M8	A59
	simple	non-quantitative cod	е

stability test @stab test

Code of the type of stability test to which a component is submitted.

CLIM	= climatic test
LOAD	= load test
OVERL	= short time overload

AAF097-005	02	NR23.3	E33
	level max	real measure	
		%	

stability after test stability stability

The ratio (in %) of a) the maximum difference of the resistance of a resistor before and after a specified test to b) the resistance before the test, according to document IEC 60115-1 (1999).

AAF096-005 = stability test

AAF098-005	01	M8	A51
	simple	non-quantitative code	e

power transformer application application

Code indicating the application of a fixed power transformer.

DRI	= line deflection driver transformer
LDO	= line deflection output transformer
SAFETY	= safety transformer
SMPS	= switched mode power supply
	transformer
SUPPLY	= supply transformer

AAF099-005	02	NR14	Q56
	level nom	integer measure	
		1	

number of secondary coils $\underset{N_{sec(coil)}}{N_{sec(coil)}}$

The number of secondary coils of a power transformer.

AAF100-005	01 level nom	NR2 S3.3 real measure %	E33
resistance to	olerance	R_tol R _{tol}	

The nominal tolerance on resistance (in %) identifying a resistor.

REMARKS: Used only in cases of equal positive and negative tolerance values.

AAF101-006	01 simple	X3 non-quantitative code	A56 9	AAF107-005	02 level max	NR33.3ES2 real measure V	E06
multiplicity		multiplicity				v	
Code of the m	nultiplicity of	f a fixed linear resistor	r.	contact volta rated operation	ge (dc) onal voltage	U_cont (dc) U _{cont}	
MUL = SIN =	linear resist single lineai	or networks r resistors		The maximum of a switch or	operating relay at res	rms switching vo sistive load.	Itage (in V)
AAF102-005	01 simple	M3 non-quantitative code	A56 e	NOTE The rated volt members befo	age is the vorce closing of	voltage between or after opening.	the contact
resistor inter	rconnectior	n interconnectio	on	IEC 60127-1 ((1988)		
Code of the ty resistor netwo	ype of interc ork. non termina	connection of a fixed li	near	AAF109-005	02 level minTy	NR33.3ES2 ypMax real n A	E01 neasure
DIV = divide ISO = isolat LAD = ladde TER = termi	er ted er nator			collector cut	-off curren	t I_CB I_CBO	
AAF103-005	01 level max	NR33.3ES2 real measure A	E01	The value as direct current bipolar transis direction with the emitter ter values of colle	specified by (in A) into t stor when it respect to t rminal is op	/ level (minTypM the collector term is biased in the the base termina en-circuited, at s	ax) of the ninal of a reverse I and when specified
current dc		I_dc I _{dc}		a temperature	ector-base (e type.	voltage and temp	
The maximum electronic or e specified amb	n dc current electromech pient temper	(in A) of an electric- anical component at ature.		AAE419-005 = AAE683-005 = AAE685-005 =	= collector-t = temperatu = temperatu	base voltage ire type ire	
AAE014-005 -	= ambient te	emperature		JESD 77B (20	000)		
AAF106-005	02 level max	NR14 integer measure A	E01	REMARKS: The collector the reverse di NPN transisto respect to the	terminal is rection whe ors or negation emitter term	considered to be in it is made pos ive for PNP trans minal.	biased in itive for sistors with
contact curre	ent (dc) onal current	l_cont(dc) (dc) l _{cont(dc)}					

The maximum dc switching current (in A) of a switch or relay at resistive load.

IEC 60947-1 (2004)

AAF110-005 02 NR3..3.3ES2 E01 level minTypMax real measure A

emitter cut-off current I_EBO I_EBO

The value as specified by level (minTypMax) of the direct current (in A) into the emitter terminal of a bipolar transistor when it is biased in the reverse direction with respect to the base terminal and when the collector terminal is open-circuited, at specified values of emitter-base voltage and temperature of a temperature type.

AAE427-005 = base-emitter voltage AAE683-005 = temperature type AAE685-005 = temperature

JESD 77B (2000)

REMARKS:

The emitter terminal is considered to be biased in the reverse direction when it is made positive for NPN transistors or negative for PNP transistors with respect to the base terminal.

AAF112-005	01	NR2 S3.3	E06
	level max	real measure	
		14	

emitter-base voltage V_EBO $$V_{\text{EBO}}$$ V_EBO

The maximum limiting voltage (in V) between emitter and base terminals of a bipolar transistor, at open collector terminal.

JESD 77B (2000)

AAF113-005 02 NR2 S..3.3 E06 level max real measure

collector-emitter voltage V_CE V_CEX V_CEX

The maximum limiting direct voltage (in V) between collector and emitter terminals of a bipolar transistor at specified voltage between base and emitter terminals.

AAE427-005 = base-emitter voltage

IEC 60748

base-emitter saturation voltage V_BEsat

The value as specified by level (minTypMax) of the base-emitter voltage (in V) of a bipolar transistor at specified collector current, base current and temperature of a temperature type.

NOTE

This is the voltage between base and emitter terminals when both the base-emitter and basecollector junctions are forward biased.

AAE406-005 = collector current (dc) AAE409-005 = base current (dc) AAE683-005 = temperature type AAE685-005 = temperature

IEC 60748

AAF115-005 02 NR3..3.3ES2 E01 level minTypMax real measure

collector cut-off current I_CE $~I_CES$ $~I_{CES}$

The value as specified by level (minTypMax) of the direct current (in A) into the collector terminal of a bipolar transistor when it is biased in the reverse direction with respect to the emitter terminal and when the base terminal is short-circuited to the emitter terminal, at specified values of collector-emitter voltage and temperature of a temperature type.

AAE412-005 = collector-emitter voltage AAE683-005 = temperature type AAE685-005 = temperature

JESD 77B (2000)

REMARKS:

The collector terminal is considered to be biased in the reverse direction when it is made positive for NPN transistors or negative for PNP transistors with respect to the emitter terminal.

AAF116-005	02	NR33.3ES2	E09
	level max	real measure	
		-	

$\begin{array}{c} \text{collector-base capacitance} & \text{C_ob} \\ & & \\$

The maximum value of the capacitance (in F) between collector and base terminals of a bipolar transistor in common-base configuration and the emitter terminal open-circuited, at specified values of collector-base voltage, frequency and temperature of a temperature type.

AAE029-005 = frequency AAE419-005 = collector-base voltage AAE683-005 = temperature type AAE685-005 = temperature

AAF117-005	03	NR33.3ES2	E09
	level max	real measure	
		E	

emitter-base input capacitance C_ib

The maximum value of the capacitance (in F) between emitter and base terminals of a bipolar transistor in common-base configuration and collector terminal open-circuited, at specified values of emitter-base voltage, frequency and temperature of a temperature type.

AAE029-005 = frequency AAE427-005 = base-emitter voltage AAE683-005 = temperature type AAE685-005 = temperature

AAF118-005 02 NR1 S..4 E06 level max integer measure

gate-source voltage limit $$V_{\rm GSlim}$$

The maximum limiting direct voltage (in V) between gate and source terminals of a field-effect transistor.

AAF119-005	01	М3	A51
	simple	non-quantitative code	Э

frequency application frequency appl

Code of the frequency application of a filter.

AP	= all pass
DD	- hand has

BP = band pass

BS = band stop HP = high pass

HP = high pass LP = low pass AAF120-005 02 NR1..4 E49 level min integer measure dB

comb depth

comb depth comb depth

The minimum comb depth (in dB) of a comb filter.

AAF121-005	02 level max	NR14 integer measure dB	F13
pass-band at	tenuation	pass band att pass band att	

The maximum pass-band attenuation (in dB) of a band pass filter.

AAF122-005	01	NR14	E01
	level nom	integer measure	
		Λ	

rated breaking capacity I_br

The nominal prospective current (in A) that a fuselink is capable of breaking.

IEC 60269-1 (1998)

AAF123-005	02	NR3 S3.3ES2	E06
	level max	real measure	
		M	

U_drop U_{drop}

voltage drop

The maximum dc or ac rms voltage (in V) across a fuse-link at the rated current.

IEC 60127-1 (1988)

AAF124-005	01	M8	A51
	simple	non-quantitative code	Э

integrated component integr comp

Code of a component integrated with a connector.

COVER = cover EARTH = earth contact HANDLE = handle HOUSE = house LATCH = latch SHIELD = shield

AAF125-005	01 simple	M8 non-quantitative coo	A57 de	AAF1	28-005	01 simple	M3 non-quantitative code	A91
contact sprir	ng material	cont spring mat		pack a envel	age colo ope colo	our	package colour	
Code of the m a connector, i	naterial of th relay or swit	e spring of the conta ch.	icts of	UL co	de of th	e colour of a	a connector body.	
BeCu = PCuSn =	beryllium cc phosphor br	pper onze		BG BK BL	= beige = black = blue			
AAF126-005	01 simple	M8 non-quantitative coo	A59 de	BZ GN	= bronz = bronz = greer	ze 1		
UL flammabi	lity	UL flammability			= ivory	al (no nigm	entation)	
UL code of th 94-5V = 94HB = 94HBF = 94HBF-1 = 94HBF-2 = 94V-0 = 94V-1 =	e flammabil 94-5V 94HB 94HBF 94HBF-1 94HBF-2 94V-0 94V-1	ity of a connector.		OR PK RD TN VT WT YL	= orang = pink = red = tan = violet = white = yellow	ge w		
94V-2 = 94VTM-0 = 94VTM-1 = 94VTM-2 =	94V-2 94VTM-0 94VTM-1 94VTM-2			AAF1	29-005	02 level max	NR33.3ES2 real measure V	E06
	0.4	M		relea	se volta	ge (dc)	U_rel(dc) U _{rel(dc)}	
AAF127-005	01 simple	M3 non-quantitative cod	A59 Je	The n	naximum	n dc voltage	(in V) at which an	
IEC flammab	ility	IEC flammable			1810-7 /	(1997)		
IEC code of t	he flammabi	lity of a connector.		1200		(1007)		
FH1 = FH1 FH2 = FH2 FH3 = FH3 EV0 = EV0				AAF1	30-005	02 level max	NR23.3 real measure VA	E49
FV1 = FV1 FV2 = FV2				conta	act powe	er (dc)	P_cont(dc) P _{cont(dc)}	
REMARKS: FH = Flame H	lorizontal F\	/ = Flame Vertical		The n produ actua switch	naximum ict of the I dc conf h or relag	n switching a e actual dc c tact current y at resistiv	apparent power (in VA contact voltage and the applied in combinatior e load.) as a ; i to a
				REMA The a conta	ARKS: ipparent ct currer	power is leant nt and conta	ss then the product of act voltage.	
				AAF1	31-005	02 level nom	NR14 integer measure 1	Q56
				numb	oer of ph	nases	N_ph Nph	

The number of actual phases of a motor.

		– 224 –	6136	60-4 © IEC:2005(E)
AAF132-005 01 level max	NR33.3ES2 real measure m	Т03	AAF136-005 01 level min	NR3 S3.3ES2 E01 TypMax real measure A
travel	S_mot S _{mot}		holding current	I_Н Iн
The maximum travel (in I	m) of a linear motor.		The value as specified dc forward current (in A	by level (minTypMax) of the A) required to hold the
AAF133-005 01 level nom	NR33.3ES2 real measure	K12	temperature of a tempe	erature type.
rated force	N Fnom		AAE683-005 = tempera AAE685-005 = tempera	ature type ature
	F _{nom}		AAF137-005 01	NR3 S3.3ES2 E01
The nominal force (in N)	of a linear motor.		level mir	TypMax real measure A
AAF134-005 01 simple	M8 non-quantitative cod	A51 e	latching current	I_L IL
integrated function	integr function		The value as specified	by level (minTypMax) of the
Code of a component int	egrated with a switch.		thyristor or triac in the pulse has been remove	on-state after the triggering ed, at a specified temperature
KNOB = knob				
LAMP = light emittir $LED = light emittir QQ = on/off indic$	ng diode ation		AAE685-005 = tempera	iture
PLATE = insulating p	blate		AAE138-005 02	NP3 3 3ES2 E01
	ıy		level mir	TypMax real measure A
AAF135-005 01 level max	NR3 S3.3ES2 real measure A	E01	collector current light	t I_CEO(L) I _{CEO(L)}
off-state current	I_D I _D		The value as specified direct collector current	by level (minTypMax) of the (in A) in a photosensor
The maximum dc off-stat forward direction of a thy high off-state voltage an	e current (in A) in the ristor or triac at a spe d a temperature of a	ecified	emitter voltage, irradian and temperature of a te	and specified conector- nce of a certain wavelength emperature type.
temperature type.			AAE412-005 = collecto AAE569-005 = waveler	r-emitter voltage
AAE683-005 = temperatu AAE685-005 = temperatu AAE737-005 = off-state	ure type ure voltage		AAE570-005 = irradian AAE683-005 = tempera AAE685-005 = tempera	ture type
REMARKS: This off-state voltage wil	I be equal to V _{D-max,} V	_{DWM,} Or	REMARKS: Called light collector cu	irrent when irradiance occurs.

This off-state voltage will be equal to V_{D-max} , V_{DWM} , or V_{RDM} (worst-case situation).

AAF139-005 02 NR3..3.3ES2 E01 level minTypMax real measure A

collector cut-off current dark I_CEO(D)

I_{CEO(D)}

The value as specified by level (minTypMax) of the direct collector current (in A) in a photosensor transistor at open base and zero irradiance and specified values of collector-emitter voltage and temperature of a temperature type.

AAE412-005 = collector-emitter voltage AAE683-005 = temperature type AAE685-005 = temperature

REMARKS:

Called dark collector current if irradiance is zero.

AAF140-005	02	NR33.3E	S2	E01
	level minTy	oMax r	eal	measure
		A		

collector current light I_CEO(L)

I_{CEO(L)}

The value as specified by level (minTypMax) of the direct collector current (in A) in a photocoupler at open base and specified collector-emitter voltage, forward voltage, forward current and temperature of a temperature type.

AAE274-005 = forward current AAE412-005 = collector-emitter voltage AAE499-005 = forward voltage AAE683-005 = temperature type AAE685-005 = temperature

AAF141-005 02 NR3..3.3ES2 E01 level minTypMax real measure A

cut-off current dark I_CEO I_CEO(D) I_CEO(D)

The value as specified by level (minTypMax) of the direct collector current (in A) in a photocoupler at open base and zero forward current and specified collector-emitter voltage and temperature of a temperature type.

AAE412-005 = collector-emitter voltage AAE683-005 = temperature type AAE685-005 = temperature cut-off current dark I_CBO I_CBO(D)

The value as specified by level (minTypMax) of the direct collector current (in A) in a photocoupler at open emitter and zero forward current and specified values of collector-base voltage and temperature of a temperature type.

AAE419-005 = collector-base voltage AAE683-005 = temperature type AAE685-005 = temperature

AAF143-005	02 NI	R33.3ES2	E01
	level minTypN	1ax real	measure
	А		

reverse current light I_R(L)

The value as specified by level (minTypMax) of the reverse direct current (in A) in a photosensor diode at specified values of reverse voltage, irradiance of a specified wavelength and temperature of a temperature type.

AAE335-005 = reverse voltage AAE569-005 = wavelength at peak value AAE570-005 = irradiance AAE683-005 = temperature type AAE685-005 = temperature

REMARKS: Called light reverse current when irradiance occurs.

AAF144-005	02 NR3	33.3ES2	E01
	level minTypMa	x real	measure
	A		

reverse current dark I_R(D)

The value as specified by level (minTypMax) of the reverse direct current (in A) in a photosensor diode at zero irradiance and specified values of reverse voltage and temperature of a temperature type.

AAE335-005 = reverse voltage AAE683-005 = temperature type AAE685-005 = temperature

REMARKS: Called dark reverse current when irradiance is zero.

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01300-4 @ IEC.2003	(=)

AAF145-005 01 level nom	NR33.3ES2 TO real measure m)3	AAF151-005	01 simple	M3 non-quantitative cod	A56 e
11 - 14 I 41-			adjustability	type	adjustability	
digit length	I_dig I _{dig}		Code of the ty identifying an	/pe of mech inductor.	anical adjustability	
The nominal length (in m display.	i) of a digit of a liquid crys	stal	FIX = fixed VAR = varia	ble		
REMARKS: The length is measured i	n the horizontal direction.		AAF152-005	01	NR3 S3.3ES2	E01
AAF146-005 02	X3 A5	56		level max	real measure A	
frequency application	frequency appl		input offset o	current	I_IO I _{IO}	
Code of the frequency id cable or transistor.	entifying an amplifier, sigr	nal	The maximum the difference terminals of a	value of th in the current n operation	e dc current (in A) eq ents in the two input al amplifier to attain z	ual to ero
RF = radio frequency WB = wideband			AAE995-005	= reference	conditions	
REMARKS: Wideband only to be use	d for amplifiers.		IEC 60748-3	(1986)		
AAF148-005 02 simple	M8 A5 non-quantitative code	56	AAF153-005	01 level max	NR3 S3.3ES2 real measure A/Cel	E01
socket type	socket type		temp coef in	put offset o	current \$a_IIO	
Code of the type of a con EDGE = printed board so SBAT = battery socket SFUS = fuse socket	nnector socket. Icket		The maximum change of inp amplifier over at the nomina	n value of th ut offset cu the operati I supply vol	rrent of an operationa ng temperature range tage.	of the I and
SIC = IC socket SLAM = lamp socket SI CD = display socket			IEC 60748-3	(1986)		
SOPT = LED socket SREL = relay socket STRA = transistor socket STUB = tube socket	t		AAF154-005	01 level max	NR3 S3.3ES2 real measure A	E01
AAF150-005 02	NR14 Q5	56	average bias input bias cur	current rent	I_IB I _{IB}	
number of contacts per	1 row N_cont/row N _{cont} /row		The maximum the arithmetic differential ing in a quiescen	n value of th average of out terminal t state at re	e dc current (in A), eo the currents into the s of an operational an ference conditions.	qual to nplifier
The number of contacts	per row of a connector.		AAE995-005	= reference	conditions	
			IEC 60748-3	(1986)		

AAF155-005	01	NR3 S3.3ES2	E06
	level max	real measure	
		V	

input offset voltage V_IO V_{IO}

The maximum value of the dc voltage (in V), required to be applied between the input terminals of an operational amplifier, to cause zero output voltage at reference conditions.

AAE995-005 = reference conditions

IEC 60748-3 (1986)

AAF156-005 01 NR3 S..3.3ES2 E06 level max real measure V/Cel

temp coef input offset voltage a_{VIO} α_{VIO}

The maximum value of the quotient (in V/Cel), of the change of input offset voltage of an operational amplifier over the operating temperature range and at the nominal supply voltage.

IEC 60748-3 (1986)

AAF157-005	02	NR2 S3.3	E06
	level max	real measure	
		V	

common-mode input voltage V_IC common-mode input voltage range

The maximum common-mode input voltage (in V) applied to a differential amplifier which, if exceeded, may cause the amplifier to cease to function within specification.

VIC

IEC 60748-3 (1986)

AAF158-005 01 NR2 S..3.3 E06 level min real measure

output voltage peak-to-peak V_OPP output voltage swing V_{OPP}

The minimum value of the peak-to-peak output voltage (in V) of a voltage amplifier over the operating temperature range, at specified load resistance and supply voltage.

AAE102-005 = supply voltage AAE212-005 = load resistance

IEC 60748-3 (1986)

large-signal voltage gain A_VOL

The minimum guaranteed ratio of the maximum output voltage swing to the change in input voltage, of a voltage amplifier at specified supply voltage and load resistance.

AAE102-005 = supply voltage AAE212-005 = load resistance

AAF160-005 01 NR1..4 E06 level minTypMax integer measure dB

common-mode rejection ratio k_CMR k_{CMR}

CMRR

The value as specified by level (minTypMax) of the ratio of the differential-mode voltage amplification to the common-mode voltage amplification (in dB) of a differential amplifier over the operating temperature range at specified supply voltage.

AAE102-005 = supply voltage

IEC 60748-3 (1986)

AAF161-005 01 NR3..3.3ES2 E06 level max real measure

supply voltage sensitivity k_SVS

The maximum absolute value of the ratio (in V/V) of the change in input offset voltage to the corresponding change in value of any one powersupply voltage, with all remaining power-supply voltages held constant, of an operational amplifier at reference conditions.

AAE995-005 = reference conditions

IEC 60748-3 (1986)

AAF162-005	02	NR14	E06
	level min	integer measure	
		V/s	

slew rate SR max change rate output voltage SR

SVOM

The minimum guaranteed maximum rate of change of the output voltage (in V/s) of a voltage amplifier at specified load resistance, maximum output voltage swing and at reference conditions.

AAE212-005 = load resistance AAE995-005 = reference conditions

IEC 60748-3 (1986)

AAF163-005	01	NR33.3ES2	E33
	level min	real measure	
		0	

differential input resistance r_id

r_{id}

The minimum resistance (in ohms) between the inputs of a differential amplifier at reference conditions.

AAE995-005 = reference conditions

IEC 60748-3 (1986)

REMARKS:

In order to be able to consider the input impedance as a pure resistance, the measurement signal frequency must be sufficiently low so that there are no significant phase differences between the voltages at the input terminals of the amplifier to be measured with or without the series resistor.

AAF164-005	01	NR3 S3.3ES2	E33
	level min	real measure	
		Ω	

common-mode input resistance r_ic r_ic

The minimum resistance (in ohms) between the inputs in parallel and the electrical reference point of a differential amplifier at reference conditions.

AAE995-005 = reference conditions

IEC 60748-3 (1986)

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AAF165-005	01 level typ	NR3 S3.3ES2 real measure Ω	E33
output resist	ance	r_out r _{out}	

The typical resistance (in ohms) at the output of a voltage amplifier at reference conditions.

AAE995-005 = reference conditions

REMARKS:

This is the resistance looking into the output terminal with the output at null. This parameter is defined only under small-signal conditions at frequencies above a few hundred cycles to eliminate the influence of drift and thermal feedback.

AAF166-005	01 level min	NR33.3ES2 real measure Hz	F03
unity-gain fr	equency	f 1	

unity-gain frequency f_ small-signal unity gain **f**₁

The minimum value of the frequency (in Hz) at which the modulus of the voltage open-loop amplification of a voltage amplifier is equal to unity at reference conditions.

AAE995-005 = reference conditions

IEC 60748-3 (1986)

REMARKS: For amplifiers having 6 dB-per-octave rolloff, the frequency is also called unity gain bandwidth.

AAF167-005	02	NR33.3ES2	F03
	level min	real measure	
		Hz	

gain bandwidth product GB gain bandwidth GB

The minimum value of the small-signal gain bandwidth product (in Hz) of a voltage amplifier at specified frequency and at reference conditions.

AAE029-005 = frequency AAE995-005 = reference conditions

REMARKS:

For amplifiers having a 6 dB-per-octave rolloff, the gain-bandwidth product is constant within this area.

AAF168-005	02	NR33.3ES2	Т07
	level max	real measure	
		S	

total response time	t_tot
settling time	t _{tot}

The maximum value of the sum of delay time, slope time and ripple time (in s) of a voltage amplifier under small-signal conditions and compensated for unity gain at reference conditions.

AAE995-005 = reference conditions

IEC 60748-3 (1986)

REMARKS:

The ripple time is the time interval between the end of the slope time and that instance at which the magnitude of the output signal reaches, for the last time, a specified level range containing the final output signal level. This level range is called ripple tolerance, and generally is 0,1 % of the final output signal.

AAF169-005	01	X3	A56
	simple	non-quantitati	ve code

amplified quantity amplified qnty

Code of the quantity which is amplified, identifying a low-frequency amplifier.

PWA	= power amplifier
VTA	= voltage amplifier

AAF170-005	01 level min	NR14 integer measure dB	E06
		uв	

The minimum absolute value of the ratio (in dB) of the change in any one power-supply voltage to the resulting change in input offset voltage, with all remaining power-supply voltages held constant, of an operational amplifier at reference conditions.

AAE995-005 = reference conditions

IEC 60748-3 (1986)

AAF191-005	01 simple	X3 non-quantitative code	A56
input configu	uration	input config	
Code of the ty voltage ampli	ype of input fier.	configuration, identifyi	ng a
DFA = differ SSA = single	ential ampli e-sided amp	fier lifier	
AAF192-005	01 simple	X3 non-quantitative code	A56
coupling me	thod	coupling	
Code of the c amplifier.	oupling met	hod identifying a differ	ential
ACA = OPA =	ac-coupled operational	amplifier amplifier (dc-coupled)	
AAF193-005	02 level min	NR14 integer measure dB	G21
sensitivity output sound	pressure le	sensitivity vel sensitivity	
The minimum (in dB), relativ level at any fr range referred and to a dista	sound pres ve to the ref equency wit d to a sinuso ince of 1 m o	sure level of a loudspe erence sound pressure thin the effective frequ- bidal input power of 1 N on the reference axis.	eaker ency N
AAF202-005	01 simple	X3 non-quantitative code	A91
chromaticity		chromaticity	
Code of the c	hromaticity	type of a display tube.	
COI =	colour displ	av tubo	

COL	- colour display tube
MCR	= monochrome display tube

AAF203-005	01	NR33.3ES2	E01
	level max	real measure	
		^	

anode current average I_a(av)

The maximum limiting long term average anode current (in A) of a display tube.

IEC 60050 (531) (1974)

REMARKS:

'long term' means that the image is stationary for an indefinite period of time, as during the display of test pictures, computer images, teletext data or stationary television scenes lasting longer than 30 s.

AAF204-005	01 level max	NR33.3ES2 real measure A	E01
anode currer	nt peak	l_a(peak)	

a(peak)

The maximum limiting long term peak anode current (in A) of a display tube.

IEC 60050 (531) (1974)

REMARKS:

'long term' means that the image is stationary for an indefinite period of time, as during the display of test pictures, computer images, teletext data or stationary television scenes lasting longer than 30 s.

AAF205-005	02	NR14	Q56
	level nom	integer measure 1	

vertical resolution resolution V resolution V

The number of visible horizontal lines of a display tube.

IEC 60050 (531) (1974)

REMARKS:

Measured with the shrinking raster method at screen centre.

AAF206-005 01 NR2 S..3.3 E06 level miNoMax real measure

grid 2 voltage V_g2 V_{g2}

The value as specified by level (miNoMax) of the direct voltage (in V), on grid 2 of a monochrome display tube.

REMARKS:

All voltages relative to grid 1 (cathode drive) to the cathode (grid drive).

AAF207-005	02)2 NR3 S3.3ES2		E01
	level minMax		real meas	ure
		٨		

output short-circuit current I_OS dynamic output current I_{OS}

The value as specified by the level (minMax) of the output current (in A) of a digital TTL IC, when an output is short-circuited, at maximum supply voltage, and in a temperature range between specified temperatures (T_1 and T_2).

NOTES

1 Not more than one output should be shorted at a time.

2 The duration of the short-circuit should not exceed 1s.

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

REMARKS:

The output short-circuit current was intended originally to reassure the TTL user that the device would withstand accidental grounding e.g. during incircuit testing.

This parameter has become a measure of the ability of the circuit to charge the line capacitance and is used to calculate propagation delays. In CMOS devices there is no need to specify this parameter because the purely capacitive loads allow

extrapolation of the ac parameters to calculate the increase in propagation delay.

AAF208-005 01 NR2 S..3.3 E06 level min real measure

positive-going threshold V_IT+ V_{ITP}

The minimum input voltage level (in V) of a combinatorial, sequential or interface function of an IC that, when crossed with a rising input voltage, enables an output to change its logic state in a temperature range between specified temperatures $(T_1 \text{ and } T_2)$.

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

AAF209-005	01	NR2 S3.3	E06
	level max	real measure	
		V	

negative-going threshold V_IT- $$V_{\rm IT-}$ $V_{\rm ITN}$$

The maximum input voltage level (in V) of a combinatorial, sequential or interface function of an IC that, when crossed with a falling input voltage, enables an output to change its logic state in a temperature range between specified temperatures $(T_1 \text{ and } T_2)$.

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

AAF210-005	01 level min	NR33.3ES2 real measure V	E06
hysteresis		V_hys V _{hvs}	

The minimum difference (in V) between the positivegoing and negative-going threshold voltages of a combinatorial, sequential or interface function of an IC in a temperature range between specified temperatures (T_1 and T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

AAF211-005	01	NR33.3ES2	F03
	level max	real measure	
		Hz	

maximum clock frequency f_clk(max)

f_{clk(max)}

The maximum clock frequency (in Hz) at 50 % duty cycle, which may be applied to a combinatorial, sequential or interface function or a register function of an IC, in a temperature range between specified temperatures (T_1 and T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

AAF212-005	02 level min	NR3 S3.3ES2 real measure s	Т07
set-up time		t_su	

t_{su}

The minimum time interval (in s) between application of a signal that is maintained at an input terminal and a subsequent active transition of the corresponding timing pulse of a combinatorial, sequential or interface function of an IC in a temperature range between specified temperatures (T_1 and T_2).

NOTES

1 The set-up time is the actual time between two signals and may be insufficient to accomplish the intended result. A minimum value is specified that is the shortest interval for which correct operation of the digital circuit is guaranteed.

2 The set-up time may have a negative value, in which case the minimum limit defines the longest interval (between the active transition and the application of the other signal) for which interval correct operation of the digital circuit is guaranteed.

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

02	NR3 S3.3ES2	Т07
level min	real measure	
	S	
	02 level min	02 NR3 S3.3ES2 level min real measure s

hold time t_h

The minimum time interval (in s) during which a signal is retained at an input terminal after the subsequent active transition of the corresponding timing signal of a combinatorial, sequential or interface function of an IC in a temperature range between specified temperatures (T_1 and T_2).

NOTES

1 The hold time is the actual time between two signals and may be insufficient to accomplish the intended result. A minimum value is specified that is the shortest interval for which correct operation of the digital circuit is guaranteed.

2 The hold time may have a negative value, in which case the minimum limit defines the longest interval (between the active transition and the application of the other signal) for which interval correct operation of the digital circuit is guaranteed.

AAE958-005	=	temperature T	_1
AAE959-005	=	temperature T	2

IEC 60748-2 (1997)

AAF214-005	02 level min	NR33.3ES2 real measure s	Т07
output enabl	e time	t_lz t_{lz} t_{oe}	

The minimum time interval (in s) between application of a signal that is maintained at an input terminal and causes an output terminal to change from a high impedance (off) state to either of the defined active levels (HIGH or LOW) of a combinatorial, sequential or interface function of an IC in a temperature range between specified temperatures (T_1 and T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

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AAF215-005	02	NR33.3ES2	Т07
	level max	real measure	
		S	

output disable time t_hz thz tod

The maximum time interval (in s) between application of a signal that is maintained at an input terminal and causes an output terminal to change from either of the defined active levels (HIGH or LOW) to a high impedance (off) state, of a combinatorial, sequential or interface function of an IC in a temperature range between specified temperatures (T_1 and T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

AAF216-005	02	NR33.3ES2	Т07
	level min	real measure	
		S	

pulse width HIGHt_WHpulse duration HIGHt_{WH}

The minimum pulse width (in s) at the minimum HIGH-level required for correct operation, applied to a combinatorial, sequential or interface function of an IC, in a temperature range between specified temperatures (T_1 and T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

AAF217-005	02 level min	NR33.3ES2 real measure s	Т07
pulse width LOW	t_WL		

The minimum pulse width (in s) at the minimum LOW-level required for correct operation, applied to a combinatorial, sequential or interface function of an IC, in a temperature range between specified temperatures (T_1 and T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60748-2 (1997)

metastable window

AAF218-005	02	NR33.3ES2	Т07
	level nom	real measure	
		S	

t_meta

	t _{meta}
The nominal time interval	(in s) in which an
nappropriate excitation a	ives rise to a metas

inappropriate excitation gives rise to a metastable pattern at the output of a combinatorial, sequential or interface function of an IC, in a temperature range between specified temperatures (T_1 and T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

AAF219-005	02 level min	NR33.3ES2 real measure s	Т07
recovery tim removal time	e	t_rec t _{rec}	

The minimum time interval (in s) between the trailing edge of an asynchronous control input pulse and the reference point on the activating edge of a synchronous (clock) input pulse so that the combinatorial, sequential or interface function of an IC will respond to the synchronous input in a temperature range between specified temperatures (T_1 and T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

AAF221-005	01	M3	A56
	simple	non-quantitative code	Э

bus structure bus structure

Code identifying the bus structure of a microprocessor.

MUL= multiple bus structure (Harvard)SIN= single bus structure (von Neumann)

AAF222-005	01	M8	A56
	simple	non-quantitative code	e

instruction set architecture instr set arch

Code identifying the instruction set architecture of a microprocessor.

CISC	= complex instruction set computer
RISC	= reduced instruction set computer

AAF223-005	02	NR14	F01
	level nom	integer measure	
		1	

machine cycleMnumber of clock periodsM

The number of internal clock periods in which a microcontroller or microprocessor carries out a memory read or write operation.

AAF224-005	01	NR33.3	3ES2	F03
	level m	inMax	real me	asure
		Hz		
clock freque	ncy	f_clk f _{clk}		

The value as specified by the level (minMax) of the clock frequency (in Hz) which may be applied to a microcontroller or microprocessor in a temperature range between specified temperatures (T_1 and T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

AAF225-005	01	NR33.	3ES2	F03
	level minM	ax	real me	asure
		Hz		

internal clock frequencyf_clk(int)

f_{clk(int)}

The value as specified by the level (minMax) of the internal clock frequency (in Hz) of a microcontroller or microprocessor in a temperature range between specified temperatures T_1 and T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

AAF226-005	01 level nom	NR14 integer measure bit	J01
address bus	width	addr bus width addr bus width	

The width of the address bus (in bit) of a microcontroller or microprocessor.

_	234	_
	207	

AAF227-005	01	NR14	J01
	level nom	integer measure	
		DIt	

data bus width	data bus width
	data bus width

The width of the data bus (in bit) of a microcontroller or microprocessor.

AAF228-005	02	NR33.3ES2	J01
	level nom	real measure	
		1	

addressable storage size $$N_{word}$$

The number of words of the storage capacity of the program memory that a microprocessor or microcontroller can access via its corresponding external address bus.

REMARKS:

The addressable storage size equals 2^n , in which n equals the address bus width (in bit).

instruction rate	Mips	
AAF229-005 02 level nom	NR33.3ES2 real measure i/s	J05

Mips

The instruction handling speed (in i/s) at specified externally applied maximum clock frequency, of a microcontroller or microprocessor.

NOTE

The instruction handling speed is determined by the kind of test program used.

ISO/IEC2382-1 (1993)

AAF230-005	02	NR14	Q56
	level nom	integer measure 1	

number of internal registers $$N_{\rm reg}$$

The number of internal registers of a microcontroller or microprocessor.

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AAF231-005 02 simple	M8 A56 non-quantitative code		
PLD programmability	programmability		
Code identifying the pro	ogrammability of a PLD.		
EEPLD= *electricalEPLD= erasable ILDPLD= loadable IMPLD= mask progOTPLD= one time IUVPLD= *UV erasa	ly erasable PLD PLD PLD grammed PLD programmable PLD able PLD		
AAF232-005 02 level min	NR33.3ES2 T07 real measure s		
output data-valid time	e t_data t _{data}		
The minimum time interval (in s) during which output data continues to be valid following a change of input conditions that could cause the output data to change at the end of the interval applicable to a storage IC in a temperature range between specified temperatures (T_1 and T_2).			
AAE958-005 = temperature T_1 AAE959-005 = temperature T_2			
IEC 60748-2 (1997)			
AAF233-005 01 simple	X3 A56 non-quantitative code		
RAM type	RAM type		
Code identifying a RAM	Code identifying a RAM function of an IC.		
DRM = DRAM SRM = SRAM			

AAF234-005	01	M8	A56
	simple	non-quantitative code	Э

register type register type

Code identifying a register function of an IC.

FIFO = first-in first-out register LIFO = last-in first-out register SHR = shift register

AAF235-005 01 simple	M8 A55 non-quantitative code	AAF240-005 01 simple	M8 A57 non-quantitative code
virginity state	virginity state	conductor finish	conductor finsh
Code identifying the logi virgin (unprogrammed) o	c state of the outputs of a or erased EPROM.	Code of the finish mater conductor. Ag = silver	rial of a conductive part of a
HIGH = HIGH-state LOW = LOW-state		Ni = nickel Sn = tin	
AAF236-005 02 simple	M8 A56 non-quantitative code	AAF241-005 01 simple	M8 A57 non-quantitative code
ROM programmability	ROM prog	conductive material	conductor mat
Code identifying the prog	grammability of a ROM.	Code of the material of conductor.	a conductive part of a
EEPROM = *electrically EPROM = erasable R MROM = mask progr OTPROM = one time pr UVPROM = *UV erasab	y erasable ROM OM rammed ROM rogrammable ROM ole ROM	Al = aluminium Cu = copper CuCd = copper-ca CuCdCr = copper-ca CuCr = copper-ch CuNi = copper-ch	dmium dmium-chromium romium
AAF237-005 01 level max	NR23.3 E01 real measure A	CuSn = bronze CuZn = brass Fe/Cu = iron core/c	copper mantle
programming current	I_PP I _{PP}	AAF242-006 01	M8 A58
The maximum value of the programming input o programming at the reference of the reference	he current (in A) sinked by f an EPROM during rence temperature.	conductor shape Code of the shape of a	conductor shape
AAF238-005 01	NR2 3 3 F06	conductor.	
level minM	lax real measure	OVAL = oval RECTAN = rectangula ROUND = round	ır
programming voltage	V_РР V _{РР}	SECTOR = sector	
The value as specified b programming voltage (in reference temperature.	y level (minMax) of the V) of an EPROM at the	AAF243-005 03 simple	M8 A58 non-quantitative code
		conductor configuration	onconductor confg
AAF239-005 01 simple	X3 A58 non-quantitative code	Code of the configuration conductor.	on of a conductive part of a
bare/insulated Code indicating whether	bare/insulated a conductor consists of a	BRAID = *braided c BUNCH = *bunched LITZ = *litze conc	onductor conductor luctor
single bare conductor or insulated conductive par	contains one or more ts.	SOLID = solid cond STRAND = stranded c TINSEL = *tinsel con	uctor conductor iductor

BAR = bare conductor INS = insulated conductor (wires and cables)

AAF244-005	01	M8	A58
	simple	string	

conductor size AWG AWG code

AWG code of the size of a conductive part of a conductor.

REMARKS:

For values see standard nominal diameters and cross-sectional areas of solid round wires.

AAF245-005	02 level nom	NR33.3ES2 real measure Ω/m	E33
dc resistanc	9	R_dc R₀c	

The nominal dc resistance per unit length (in Ω/m) of a conductive part of a conductor.

AAF246-005	02	NR33.3	ES2	T03
	level miNoN	/lax	real measur	e
		m		

conductor diameter	d_cond
	d_{cond}

The value as specified by level (miNoMax) of the diameter (in m) of a conductive part of a round conductor.

cross-sectio	n	A_cross	
AAI 247-003	level nom	real measure m ²	100
AAF247-005	03	NR3 33ES2	T05

 A_{cross}

The nominal cross-sectional area (in m²) of a conductive part of a conductor.

AAF248-005	02 simple	M8 non-quantitative code	A52		
insulating material		insulating mat			
ISO code of the material of the insulating layer of an insulated conductor.					

E/TFE ECTFE	= *ethylene/tetrafluoroethylene = *ethyl cellulose tetrafluoroethylene
ENAM	= enamel
FEP	= *fluoroepoxy
PA	= *polyamide
PAPER	= paper
PE	= *polyethylene
PFA	= *perfluoro alkoxyl alkane
POLY	= polymer
PP	= *polypropylene
PTFE	= *polytetrafluoroethylene
PUR	= *polyurethane
PVC	= *polyvinylchloride
RUBBER	= rubber
TEXTILE	= textile
UP	= *unsaturated polyester

REMARKS:

Only the polymers are coded according to ISO.

AAF249-005	01 simple	X3 non-quantitative code	A55		
cable/wire		cable/wire			
Code indicating the multiplicity of conductors of an insulated conductor.					
CBL = cable (multi-conductor) IWR = insulated wire (single conductor)					
AAF250-005	02 simple	M3 non-quantitative code	A91		
colour code		colour code			

IEC code of the colour of the insulation layer of an insulated wire.

- 0 = black
- = brown 1
- 2 = red
- 22 = pink
- 3 = orange
- 4 = yellow
- 5 = green 55
- = turquoise
- 6 = blue 7
- = violet 8 = grey
- 9
- = white

AAF251-005 03 level mi	NR1 S4 n integer measure V	E06	AAF255-00	5 02 level nom	NR14 integer measu 1	Q51 re
test voltage minimur minimum breakdown v dielectric strength	n U_bd(min) /oltage U _{bd(min)}		number of	cable eleme	nts N_elem N _{elem}	
The minimum value of insulation of an insula IEC 60851-5 (1996)	f the dc voltage (in V) ted conductor can with	which the nstand.	The number REMARKS: The type of and AAF256	r of basic ele basic elemer 5-005.	ments in a cable	a. AAF253-005
AAF252-005 01 simple	M8 string	A58	AAF256-00	5 01 simple	M3 non-quantitativ	A58 ve code
MIL cable type	MIL code		RF cable el	lement	RFcable elem	ent
MIL code of the type of	of a cable.		Code indica cable.	iting the type	of basic elemer	nts of an RF
REMARKS: For values see namin	g document.		CX = coa PP = par	axial cable (co allel pairs	oncentric)	
AAF253-005 01	M3	A58	FFO	– paraller par	is scieelled	
simple	non-quantitative c	ode	AAF257-00	5 03	M8	A58
LF cable element	LFcable element			simple	non-quantitativ	ve code
Code indicating the ty	pe of basic elements v	which an	dielectric c	onstruction	diel config	
1= singles1S= singles scree2= pairs2S= pairs screene3= triples3S= triples screen4= quads4S= quiads screen5= quintuples5= quintuples	ned d ed ed		Code of the cable. AIR FOAM SEMAIR SOLID THREAD TUBE	construction = air-spaced = *foam = semi-air-sp = solid dielec = *thread = *tube/threa	of the dielectric dielectric aced dielectric tric d	of an RF
55 – quintuples sc	reened		AAF258-00	5 01	NR14	E06
AAF254-005 01 simple	M3 non-quantitative c	A58 ode		level nom	integer measu V	re
cable configuration	CBL config		working vo	ltage	U U	
Code of the configura	tion of a cable.		The nomina conductors,	l ac rms volta for which a d	age (in V) betwe cable is designe	en any two d.
BND = bundled cable FLT = flat cable	9		IEC 60183 ((1984)		
			AAF259-00	5 01 level nom	NR33.3ES2 real measure F/m	E09
			capacitanc	e between c	onductors C _{c-c}	C_c-c

The nominal capacitance per unit length (in F/m) between a pair of conductors of a cable.

non-quantitative code

A53

M..3

01

simple

AAF260-005	02 N level miNol	IR33.3ES2 Max re Ω	al measur	E44 e	AAF265-005
characteristi	c impedanc	e IZI			packing arra
The sector of	e inipedane	Z			Code of the a packing.
ne value as modulus of th a pair of cond frequency cor	specified by e characteri uctors of a inector at sp	stic impedat stic impedat cable or of a pecified freq	Max) of th nce (in ohr radio- uency.	ne ms) of	ARR = arrar CON = *con LSE = loose MET = meta
AAE029-005 :	= frequency				TAP = tape WND = *wou
AAF261-005	02 level nom	NR14 integer mea dB/m	asure	F10	AAF266-005
attenuation		attenuation attenuation	ı		inductance l
The nominal r	ower atteni	uation (in dB	/m) of a p	air of	Code of the i
conductors of	a cable at s	specified fre	quency.		LI = low i
AAE029-005 :	= frequency				NI – HOH
IEC 60096-1 ((1986)				AAF267-005
AAF262-005	01 simple	M3 non-quantit	ative code	A56	inner tape s
wire applicat	ion	applicatior	ı		
The code of t	ne applicatio	on of an insu	lated wire	•	The nominal the two tapes leads.
CNT = conne WND = windi	ecting wire ng wire				IEC 60286-1
AAF264-005	01 simple	M8 non-quantit	ative code	A56	AAF268-005
driving meth drive method	od	@MUX-rati @MUX-rati	o		orientation
Code of the d	riving metho	od (ratio) as odule, as a	applied to	а	Code of the l products.
01:08 0.086111111	= 01:0 = 0.08)8 86111111			F = forwa R = reve
0.11111111 0.180555556 0.208333333 01:01 01:02 01:03	= 0.11 = 0.18 = 0.20 = DD = 01:0 = 01:0	1111111 30555556 08333333 direct drive 02 03	9		REMARKS: The orientation a) the ar b) the co c) termin than t

packing arra	ngement	packing arrange		
Code of the arrangement of products in the first level packing.				
ARR = arranged CON = *concertina LSE = loose MET = metal strip TAP = taped WND = *wound				
AAF266-005	02 simple	M8 non-quantitative code	A53	
inductance l	evel	ind level		
Code of the i	nductance le	evel of a fixed resistor.		
LI = low inductance NI = normal inductance				
AAF267-005	01 level nom	NR33.3ES2 real measure m	Т03	

inner tape spacing b_tape $\mathbf{b}_{\mathsf{tape}}$

The nominal distance (in m) between the inside of the two tapes used for taped products with axial leads.

IEC 60286-1 (1997)

AAF268-005	01	М3	A53
	simple	non-quantitative co	de

orientation orientation

Code of the longitudinal orientation of taped products.

= forward R

= reverse

The orientation applies to:

- the anode of polarised components. a)
- b)
- the collector/drain of transistors. terminal number one of components with more c) than three terminals

01:16 = 01:16 = 01:32 01:32

01:04 = 01:04

AAF269-005	02 simple	M3 non-quantitative code	A53	AAF273-005	02 simple	M8 non-quantitative code	A58
marking met	hod	marking method		display form	at	display format	
Code of the m products.	narking meth	nod on the packing of		Name of the o unit of a moni	display form tor display f	at for which the deflec tube is designed.	tion
BAR = bar c CHA = chara COL = colou	oded acter coded ir coded			landscape = portrait =	landscape (portrait (ve	horizontal) rtical)	
AAF270-005	01 simple	M3 string	A53	AAF274-005	01 level max	NR33.3ES2 real measure Hz	F03
packing leve	I	@packing level		line frequend	сy	f_line	
Code of the p	acking level	for products.		The meximum	ling frague		, ha
NOTE The first level	of packing	is that enclosing one of	or	applied to a d specified amb	eflection un pient temper	it for monitor tubes, al ature.	t
enclose one,	or more, of	the immediately lower	level	AAE014-005	= ambient te	emperature	
REMARKS: This data eler AAE111 (pack	nent must b king type) V	e used in combination alues can be:	n with	REMARKS: The line frequ operating cop	iency is limi per tempera	ted by the maximum ature of the deflection	coils.
2 = second le 3 = third leve	evel I	etc.		AAF275-002	01 level nom	NR14 integer measure Cel	H02
AAF271-005	01 simple	M8 non-quantitative code	A58	junction stre virtual junctio	ss tempera n stress tem	t ure T_stress(junc nperature T _{stress(j}) unc)
screen shape	9	screen shape		The nominal j	unction tem	perature (in Cel) of a	
Name indicati picture or mor	ng the shap nitor tube.	e of the screen of a T	V	device or inte	grated circu	it during stress.	
CONVEX = FLAT = FLATSQR =	conventiona flat (face-pla flat square th corner ra	l ate radius > 1000 mm) (as flat but dius 10mm))	AAF276-002	01 level min	NR1 S4 integer measure Cel	H02
•••				stress tempe	erature min	T_stress(min)	
AAF272-005	01 level nom	NR14 integer measure inch	Т03	The minimum component du	temperatur uring cycle s	e (in Cel) applied to a stress.	
tube size (ind	ch)	d_gls(i) d _{gls(i)}		REMARKS: See AAF277- temperature	002 for the	maximum stress	
The nominal of glass envelop identification.	overall outer e of a displa	[.] diagonal (in inch) of ay tube, used as prodi	the uct				

AAF277-002	01	NR1 S4	H02
	level max	integer measure	
		Cel	

stress temperature max T_stress(max) T_{stress(max)}

The maximum temperature (in Cel) applied to a component during cycle stress.

REMARKS: See AAF276-002 for the minimum stress temperature.

AAF278-002	03	NR1 S4	H02
	level nom	integer measure	
		Cel	

stress ambient temperature T_stesss(amb) stress ambient free air temperature T_{stress(amb)}

The nominal ambient free air temperature (in Cel) applied to a component during high temperature life test.

AAF279-002	01	NR14	K02
	level nom	integer measure	
		%	

stress relative humidity RH_stress RH_{stress}

The nominal value of the ambient humidity (in %) relative to saturation humidity, applied to a component during humidity resistance stress.

REMARKS:

Relative humidity: Actual humidity by volume, divided by humidity by volume at saturation, at the same temp.

Humidity by volume: Mass of water vapour divided by the volume of the gaseous mixture.

AAF281-005	01	NR14	E06
	level max	integer measure V	

The maximum limiting ac voltage (in V) that may be applied to a resistor.

AAF282-005 03 NR1..4 H01 level nom integer measure

thermal sensitivity tolerance B_25/85(tol) B_25/85 tolerance B_{25}/85(tol)

The nominal tolerance on the thermal sensitivity index (in %) identifying a NTC thermistor.

IEC 60539-1 (2002)

REMARKS: Used only in cases of equal positive and negative tolerance values.

AAF283-005	02	NR33.3ES2	Т05
	level nom	real measure m ²	

The nominal value of the minimum cross-sectional area (in m^2) of a soft magnetic part.

AAF284-005	01	NR14	E17
	simple	integer measure A/m	

magnetic field strength @H @H

The magnetic field strength (in A/m) applied to a magnetic part or magnetic material as a variable.

AAF286-005	01 level nom	NR33.3ES2 real measure kg/m ³	K02
density		\$r_d	

 ρ_d

The nominal density (in kg/m^3) of a material.

AAF287-005	01 NR1	.4 E17
	level minTypMax A/m	integer measure

coercivity H_cB H_cB H_{cB}

The value as specified by level (minTypMax) of the magnetic field strength (in A/m) applied to a hard magnetic material, necessary to bring the flux density from saturation to zero by a monotonically changing field.

IEC 60050 (221) (1990)

01 NR1..4

AAF288-005

AAF292-005 01 NR3..3.3ES2

E19

E17

lev	el minTy	ypMax_integer_measi A/m	ure		level minT	ypMax T	real measur	e
coercivity H_cJ		H_сЈ Н _{сЈ}		remanent flu remanence	ıx density	B_r Br		
The value as specified by the level (minTypMax) of the magnetic field strength (in A/m) applied to a hard magnetic material, necessary to bring the polarisation from saturation to zero by a monotonically changing field.		The value as specified by level (minTypMax), of the flux density (in T) remaining in a magnetised hard magnetic material when, in the absence of a self- demagnetising field, the magnetic field strength is brought to zero.				f the ard If- i is		
IEC 60050 (221)	(1990)			IEC 60050 (2	21) (1990)			
AAF289-005 01 lev	vel nom	NR33.3ES2 real measure A/m	E17	AAF293-005	01 level nom	NR33. real mea T	3ES2 asure	E19
field strength at	: (BH)_m	nax H_d H _d		flux density	at (BH)_ma	ix B B _d	8_d	
The nominal value A/m) at which the material is maxim	e of the BH pro num.	magnetic field streng duct of a hard magne	gth (in etic	The nominal at which the is maximum.	value of the BH product	magnetio of a hard	c flux density magnetic ma	(in T) terial
AAF290-005 01 lev	vel min	NR33.3ES2 real measure A/m	E17	AAF294-005	02 level nom	NR14 integer 1	measure	E25
saturation field s	strengtl	h H_s H _s		recoil perme	ability	\$m_rec µ _{rec}		
The minimum val A/m) at saturatior material.	lue of the n magne	e magnetic field strer etisation of a hard ma	ngth (in Ignetic	The nominal to the slope o material.	value of the of the recoil	permeat line of a	oility correspo hard magnetic	nding c
AAF291-005 01 lev	vel typ	NR3 S3.3ES2 real measure (A/m)/K	H03	NOTE The recoil lin sub-hysteres magnet is sa demagnetisin	e is a straig is loop whic turated and ig fields less	ht line ap h is trave then sub s than the	proximating t prsed when the jected to coercivity.	he e
temperature coe	efficient	H_cJ \$a_HcJ α _{HcJ}		IEC 60050 (2	21) (1990)		·	
The typical value coefficient of the of a hard magneti range, between s	of the n polarisa ic mater specified	nean temperature ation coercivity (in (A/ rial over a temperatur I temperatures (T ₁ an	/m)/K) re d T ₂).					
AAE958-005 = ter AAE959-005 = ter $\alpha_{\rm HcJ} = \frac{\rm H_{cJ} 2 - \rm H_{cJ}}{(\rm T_2 - \rm T_1)}$	emperatu emperatu <u>1</u>	ire T_1 ire T_2						

 $(T_2 - T_1)$ where H_{cJ1} and H_{cJ2} are the coercivities at temperature T_1 and T_2 respectively.

AAF295-005	01	NR33	E30	
	level	minTypMax	real mea	asure
		J/m ³		

BH product max	BH_max
	BH_{max}^{-}

The value as specified by level (minTypMax), of the maximum product of the magnetic flux density and magnetic field strength (in J/m^3) attained on the demagnetisation curve of a hard magnetic material.

NOTE

The BH product is equal to twice the total energy stored in the external field of the magnet per unit volume of the magnet.

IEC 60050 (221) (1990)

AAF296-005	01	NR33.	3ES2	E30
	level min	TypMax J/m ³	real m	easure

B_r x H_cJ product	B_rxH_cJ
	$B_{r} \ge H_{cJ}$

The value as specified by the level (minTypMax), of the product of remanent flux density B_r and coercivity H_{cJ} (in J/m³) of a hard magnetic material

AAF297-005	01	NR3 S3.3ES2	H03
	level typ	real measure	
		%/K	

 $\begin{array}{ll} \text{temperature coefficient Br} & \texttt{$a_Br} \\ & \alpha_{Br} \end{array}$

The typical value of the mean temperature coefficient of the remanence relative to the remanence at the reference temperature (in %/K) of a hard magnetic material over a temperature range, between specified temperatures (T_1 and T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

$$\alpha_{\rm Br} = \frac{B_{\rm r} 1 - B_{\rm r} 2}{B_{\rm rref} (T_2 - T_1)}$$

where B_{r1} and B_{r2} are the remanences at temperatures T_1 and T_2 respectively.

AAF298-005	02	NR33.3ES2	E25
	level max	real measure 1	

tan\$d/\$m_r tan δ/μ_r

The maximum value of the tangent of the magnetic loss angle divided by the relative permeability of a soft magnetic material at specified ambient temperature and frequency.

AAE014-005 = ambient temperature AAE029-005 = frequency $\frac{\tan \delta}{\mu_{\rm r}} = \frac{\mu''}{(\mu')^2}$

IEC 60050 (221) (1990)

loss factor

AAF299-005	02	NR33.3ES2	E25
	level max	real measure	
		1	

disaccommodation factor **D_F**

The maximum fractional decrease of permeability of a soft magnetic material over a time interval between T_1 and T_2 after demagnetisation divided by the permeability at T_1 and by the logarithm of t_2/t_1 .

AAE014-005 = ambient temperature AAF312-005 = time t_1 AAF313-005 = time t_2

$$D_{\rm F} = \frac{\mu_1 - \mu_2}{(\mu_1)^2 \lg \frac{t_2}{t_1}}$$

where μ_1 and μ_2 are the values of the relative permeability at the beginning and the end of the given interval respectively.

IEC 60050 (221) (1990)

AAF300-005 01 NR2..3.3 H07 level max real measure W/m³

specific total loss P_V total loss volume density P_V

The maximum total power absorbed divided by the volume (in W/m^3) of a soft magnetic material at specified frequency, ambient temperature and peak flux density.

NOTE

The total loss may include: eddy current loss, hysteresis loss, rotational hysteresis loss, residual loss, gyromagnetic resonance loss.

AAE014-005 = ambient temperature AAE029-005 = frequency AAE768-005 = peak flux density

IEC 60050 (221) (1990)

AAF301-005	02	NR33.3ES2	Т07
	level max	real measure	
		S	

reverse recovery time (I)	t_rr(l)
	t _{rr(I)}

The maximum reverse recovery time (in s) of a diode, when switched from a specified forward current to a specified reverse current at specified junction temperature.

AAE271-005 = junction temperature AAE274-005 = forward current AAE994-005 = reverse current

IEC 60747-2 (2000)

AAF302-005	01	NR3 S3.3ES2	E06
	level min	real measure	
		V	

breakdown voltage

V_(BR)R V_{(BR)R}

The minimum breakdown voltage (in V) at which a diode will commence avalanche breakdown, at specified reverse current and temperature of a temperature type.

AAE683-005 = temperature type AAE685-005 = temperature AAE994-005 = reverse current

REMARKS:

Sometimes measured under pulsed conditions to avoid excessive dissipation.

AAF303-005 01 NR3..3.3ES2 E09 level minTypMax real measure

diode upper capacitance C_{d1} C_d1

The value as specified by level (minTypMax) of the upper capacitance (in F) between the terminals of a variable capacitance diode at specified values of the lower reverse voltage, frequency and temperature of a temperature type.

AAE029-005 = frequency AAE683-005 = temperature type AAE685-005 = temperature AAE961-005 = voltage V 1

REMARKS:

A variable capacitance diode varies its characteristic capacitance from a high value to a lower value when the applied reverse voltage increases from a low value to a higher value and vice versa.

AAF304-005	01 NR3	E09	
	level minTypMax	k real	measure

diode lower capacitanceC_d2

 C_{d2}

The value as specified by level (minTypMax) of the lower capacitance (in F) between the terminals of a variable capacitance diode at specified values of the upper reverse voltage, frequency and temperature of a temperature type.

AAE029-005 = frequency AAE683-005 = temperature type AAE685-005 = temperature AAE962-005 = voltage V_2

REMARKS:

A variable capacitance diode varies its characteristic capacitance from a high value to a lower value when the applied reverse voltage increases from a low value to a higher value and vice versa.

AAF305-005	01	X3	A56
	simple	non-quantitative code	е

category of diode device diode device

Code of the category to which a diode device belongs.

BRI	= bridge rectifier
DIO	= diode
VMP	= voltage multiplier

AAF306-005	01	NR33.3ES2	E25
	level max	real measure ⊤⁻¹	

hysteresis material constant \$h_B

η_B

The maximum value of the loss factor due to hysteresis divided by the peak value of the flux density (in T^{-1}) of a soft magnetic material, operating in the Rayleigh region, at specified ambient temperature and frequency.

AAE014-005 = ambient temperature AAE029-005 = frequency

 $\eta = \frac{\tan \delta_{\rm h}}{\mu_{\rm r} B_{\rm peak}}$

where $tan \delta_h/\mu_r\,$ is the loss factor due to hysteresis and B_{peak} the value of the flux density.

IEC 60050 (221) (1990)

REMARKS:

Rayleigh region: In the graphic representation of the relation between the magnetic flux density and the magnetic field strength in a material, a region near the origin within which the flux density can be described by a quadratic function of the field strength.

AAF307-005 02 NR3 S..3.3ES2 E25 level minTypMax real measure K⁻¹

temperature factor of permeability a_F temperature factor of reluctivity α_F

The value as specified by level (minTypMax) of the negative of the change in the permeability due to a change in temperature, divided by that change in temperature (in K^{-1}) of a soft magnetic material at specified frequency.

AAE029-005 = frequency

$$\alpha_{\rm F} = -\frac{\frac{1}{\mu_{\theta}} - \frac{1}{\mu_{\rm ref}}}{\theta - \theta_{\rm ref}} = \frac{\mu_{\theta} - \mu_{\rm ref}}{\mu_{\theta} \mu_{\rm ref} (\theta - \theta_{\rm ref})}$$

where μ_Θ and μ_{ref} are the permeabilities at temperatures $\Theta and \; \Theta_{ref}$ respectively.

IEC 60050 (221) (1990)

AAF308-005	01	NR33.3ES2	E19
	level typ	real measure	
		Т	

saturation flux density $\begin{array}{c} \textbf{B}_{\text{s}} \\ B_{\text{s}} \end{array}$

The typical value of the magnetic flux density (in T) at saturation of a soft magnetic material at specified ambient temperature.

ANSI/IEEE Std 100 (1988)

REMARKS:

1 Saturation: The state of a material subjected to an external magnetic field so strong that the magnetic polarisation cannot be substantially increased by increasing that field. IEC 60050 (901) (1996) 2 The saturation magnetisation is equal to the spontaneous magnetisation.

AAF309-005	01	M17	A52
	simple	string	

accessory name accessory name

Name of the accessory of a soft magnetic part to be used in the assembly of inductors and transformers.

AAF311-007	01 simple	X8 non-quantitative code	A57 e	AAF315-005	01 level max	NR33.3E real meas	3 82 Sure	E06
material type	9	material type				v		
Code of the ty	ype of mate	rial.		anode voltag	je limiting	V_a(lim) V _{a(lim)}		
ACO = acou DIEL = diele MG = magr	stical ctric and ins netic	sulating		The maximun anode of a di	n limiting dir splay tube.	ect voltage) (in V) on t	he
OP = optic PWL = printe TH = thern	alc ed-wiring laı nal-electric	minate		AAF316-001	01 level nom	NR33.3E real meas m	E S2 Sure	Т03
AAF312-005	02 simple	NR33.3ES2 real measure s	T07	hole pitch		p_hole p _{hole}		
time t_1		@t_1 @t ₁		The nominal electric/electr parallel to the	pitch (in m) onic or elec x-coordina	of the hole tromechan te.	s of an ical compoi	nent
The begin tim which a quan variable.	ne t ₁ (in s) o tity is applie	f a time interval during d to a product, as a	3	AAF317-001	01 level miNo	NR33.3E Max m	5S2 real measu	T03 re
REMARKS: See AAF313-	005 for the	end time t_{2}		flange length	ı	l_flange I _{flange}		
AAF313-005	02 simple	NR33.3ES2 real measure s	T07	The value as length (in m) direction.	specified by of the flange	y level (miN e of a com	loMax) of th conent in th	he ie x-
time t_2		@t_2 @t ₂		AAF318-001	01 level miNo	NR33.3E Max	582 real measu	T03 re
The end time a quantity is a	t ₂ (in s) of a applied to a	a time interval during v product, as a variable	which 9.	m				
REMARKS:	005 6 11			flange bread	th	b_flange B _{flange}		
See AAF312-	005 for the		E06	The value as breadth (in m	specified by) of the flan	y level (miN ge of a cor	loMax) of th nponent in t	he the y-
AAF 3 14-005	level max	real measure	EUO	direction.				
focusing vol	tage limitin	y g V_foc(lim) V _{foc(lim)}		AAF319-001	01 level miNo	NR33.3E Max m	:S2 real measu	T03 re
The design m voltage (in V)	aximum lim , on grid 3 v colour displ	iting value of the direc vith respect to grid 1, av tube	ct for	flange heigh	t	h_flg h _{flg}		
		.,		The value as height (in m) electromecha	specified by of the flange nical compo	y level (miN e of an ele onent.	loMax) of th ctric/electro	he nic or

AAF320-001	01 level miNol	NR33.3ES2 Max real measu m	T03 Ire	AAF3
body diamete	er	d_body		inter
		a _{body}		Code
The value as	specified by	(level (miNoMax) of t	he	mero
diameter (in n	n) of the bo	dv of an electric/elect	ronic	exter
or electromed	hanical com	nponent.		interr
		•		mask
				non-r
AAF321-001	01 level nom	NR33.3ES2 real measure m	Т03	priori softw
nitch (v. ovio)	,	B V		
pitch (x-axis))	p_x		AAFS
		μx		
The nominal r	oitch (in m)	of the terminals of an		addre
electric/electr	onic or elec	tromechanical compo	nent	
parallel to the	x-coordina	te.		Code
				micro
AAF322-001	01	NR33.3ES2	Т03	direct
	level nom	real measure		imme
		m		index
nitab (v avia)	\			indire
pitch (y-axis))	p_y py		relativ
The nominal p electric/electr parallel to the	oitch (in m) onic or elec y-coordina	of the terminals of an tromechanical compo te.	nent	AAF3
ΔΔF323-005	01	M 8	456	011-01
AAI 323-003	simple	non-quantitative cod	e	
	ompio		0	The r
interface con	npatibility	compatibility		chip r
				speci
The interface	compatibilit	y of the digital IC inp	uts	
and outputs w	vith the peri	pheral circuits.		AAF3
CMO8 -	directly com	natible with CMOS a	rouito	
TTI =	directly con	patible with TTL circu	uite	
	unectly con		into.	
AAF324-005	01	M35	A56	
	simple	non-quantitative cod	е	l/O b
instruction s	et	instruction set		- .
		wation and of an IO		The v
Code Identify	ing the instr	uction set of an IC		micro
merocontrolle	ы ог ппстор	10003001.		auure
68000 =	instruction s	set 68000		
8048 =	instruction s	set 8048		
8048 enh =	enhanced ir	struction set 8048		
8051 =	instruction s	set 8051		

AAF325-005 01 simple	M35 A56 non-quantitative code
interrupt type	interrupt type
Code identifying the inte microcontroller or microp	rrupt type of a processor.
external = externally v internal = internally v maskable = maskable non-mask = non-maska priority = priority software = software ge	rectored ectored ble enerated
AAF326-005 01 simple	M17 A56 non-quantitative code
addressing mode	addressing mode
Code identifying the add microcontroller or microp	ressing modes of a processor.
direct a = direct addre immediat = immediate indexed = indexed ad indirect = indirect add relative = relative add	ess address dress Iress Iress
AAF327-005 01 level nom	NR33.3ES2 J01 real measure 1
on-chip memory	n_word(on-chip) N _{word(on-chip)}
The number of words spe chip memory function of specified storage type.	ecifying the size of an on- a microcontroller, of a
AAF334-005 = storage ty	vpe
AAF328-005 01 level nom	NR14 J01 integer measure bit
I/O bus width	I/O bus width I/O bus width
The width of the address microcontroller or microp address for I/O purposes	bus (in bit) of a processor, to supply an

AAF329-005	02 level nom	NR14 integer measure 1	Q56	AAF333-005	01 level min	NR2 S3.3 real measure V	E06
number of pe	eripherals	n_peri N _{peri}		data retentio	n voltage	V_DDR V _{DDR}	
Number of pe specified peri	ripherals of pheral type.	a microcontroller of a		The minimum SRAM, for wh	supply volta ich data inte	age (in V), applied to a egrity is guaranteed.	an
AAF335-005 =	= peripheral	type		AAF334-005	01 simple	M8	A56
AAF330-005	01 level nom	NR14 integer measure bit	Q62	storage type	Simple	@storage-type	,
peripheral w	ord size	peri word size		Code of the ty microcontrolle	/pe of on-ch er.	ip storage of a	
The number of bits applicable to a peripheral on a microcontroller of a specified peripheral type.		n a	EEPROM = electrically erasable ROM MROM = mask programmed ROM RAM = RAM				
AAF335-005 =	= peripheral	type		UVPROM =		ROM	
AAF331-006	01 level max	NR33.3ES2 real measure s	Т07	AAF335-005	01 simple	M3 non-quantitative code	A56
refresh time refresh time refresh perioc	interval	t_rf t _{rf} t _{ref}		peripheral ty Code of the p	pe eripheral ty _l	@peri type pe of a microcontroller	
The maximum time interval (in s) between the beginnings of successive signals that are intended to restore the level in a DRAM cell to its original level, in a temperature range between specified temperatures (T_1 and T_2).		ded to evel,	ADC = analo INT = exter PIO = paral PWM = pulse SIO = serial	ogue-digital nal interrup lel I/O port -width modu I I/O port	converter t line ulated output line		
AAE958-005 AAE959-005	= temperatu = temperatu	re T_1 re T_2					
JESD 100B.0	1 (2002)						
AAF332-005	03 level minTy	NR3 S3.3ES2 pMax real measur	E01				

data retention current I_DDR

I_{DDR}

The value as specified by level (minTypMax) of the supply current (in A) during data retention of an SRAM at specified supply voltage and an ambient temperature range between specified temperatures $(T_1 \text{ and } T_2)$.

A

AAE102-005 = supply voltage AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

AAF336-005	01	NR3 S3.3ES2	E01
	level max	real measure	
		А	

I_{SB} I_{SBL}

SBLL

standby current chip disabled I_SB

standby current

The maximum standby supply current (in A) of an SRAM with the chip disabled, at specified input voltage, in a temperature range between specified temperatures (T_1 and T_2).

AAE224-005 = input voltage AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

REMARKS:

Some static RAM's (SRAMS) are selected on standby current. These selections have then as suffix L and LL. The symbols of the respective standby current are then S_{BL} and S_{BLL} .

AAF337-001	01 level nom	NR33.3ES2 T real measure m		
pitch circle o	liameter	d_p dp		

The nominal diameter (in m) of the pitch circle of the terminals of an electric, electronic or electromechanical component.

AAF338-001	01 level nom	NR33.3ES2 real measure m	Т03
terminal brea	adth	b_term b _{term}	

The nominal breadth (in m) of the terminals of an electric, electronic or electromechanical component.

AAF339-001	01 level nom	NR33.3ES2 T real measure m	
terminal thic	kness	t_term t _{term}	

The nominal thickness (in m) of the terminals of an electric, electronic or electromechanical component.

AAF340-001	01 level nom	NR33.3ES2 real measure m	Т03
offset (y-axis	5)	s_y	

The nominal offset (in m) of the terminals of an electric, electronic or electromechanical component parallel to the y-coordinate.

Sy

AAF341-001	01 level nom	NR33.3ES2 real measure m	Т03
offset (x-axis	5)	s_x s _×	

The nominal offset (in m) of the terminals of an electric, electronic or electromechanical component parallel to the x-coordinate.

AAF342-001	01	1 NR33.3ES2		Т03
	level mi	iNoMax m	real mea	sure
flange diame	eter	d_flg		

d_flg d_{flg}

The value as specified by level (miNoMax) of the diameter (in m) of the flange of an electric/electronic or electromechanical component.

AAF343-001	01	М3	A52
	simple	non-quantitative code)

mounting method mounting-method

Code of the mounting method of an electric/electronic or electromechanical component.

Α	=	surface	mounted
~	_	Sunace	mounteu

- B = inserted
- C = flange mounted
- D = stud mounted

AAF344-001	01	М3	A58
	simple	non-quantitative code	Э

body shape body-shape

Code of the shape of the body of an electric/electronic or electromechanical component.

- A = rectangular
- B = elliptical shaped
- C = horizontal cylindrical
- D = vertical cylindrical
- E = spherical
- F = can shaped
- G = vert cylindrical hex flange
- H = vert cylindrical oval flange
- J = vert cylindrical circ flange
- K = rectangular rectangular flange
- L = vert cylindrical rect flange

AAF345-001	01	M3	A58
	simple	non-quantitative code	Э

terminal exit position SMD term-exit-posit

Code indicating the exit position of the terminals of an electric/electronic or electromechanical component.

- A = single 3
- B = end
- C = radial
- D = dual 3 (1+2)
- E = dual 4 (2+2)
- F = dual 4 (1+3)
- G = dual n
- H = triple
- J = quad

AAF346-001	02	M3	A58
	simple	non-quantitative cod	е

terminal exit position non-SMD term-exit-SMD

Code indicating the exit position of the terminals of electric/electronic or electromechanical components.

- A = axial
- B = radial
- C = two terminals on axis
- D = two terminals offset
- E = diagonal
- F = on circle
- G = four (x+y)
- H = upper
- J = one row
- K = dual
- L = grid array

AAF347-001	02	M3	A58
	simple	non-quantitative code	e

terminal shape non-SMD term-shape

Code of the terminal shape of an electric/electronic or electromechanical component.

- A = straight
- B = 90 deg bend
- C = 180 deg bend
- D = SIL offset bend
- E = DIL staggered bend
- F = DIL staggered offset bend
- G = QUIL staggered offset bend

AAF348-001	01	МЗ	A58
	simple	non-quantitative code	9

terminal shape SMD term-shape-SMD

Code of the terminal shape of an electric/electronic or electromechanical component.

- A = straight
- B = gull wing
- C = J-bend
- D = J-inverted bend
- E = S-bend
- F = wraparound
- G = C-bend
- H = cap
- J = metallized

AAF349-001	01 level min	NR33.3ES2 real measure Ω	E33
insulation re	sistance	R_ins R _{ins}	

The minimum insulation resistance (in ohms) of a fixed resistor measured according to the V-block method at specified direct voltage.

AAE013-005 = voltage (dc)

IEC 60115-1 (2001)

REMARKS:

The insulated resistance shall be measured according to the V-block method described in IEC 60115-1.

AAE256 001 01

AEO

M O

AAF350-001	01 N	NR3 S3.3ES2		
	level minMa ا	k real K ⁻¹	measure	

temperature coefficient TC

The value as specified by the level (minMax) of the temperature coefficient (in K^{-1}) of a fixed resistor in the temperature range between specified temperatures (T₁ and T₂).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

IEC 60115-1 (1999)

AAF351-001	01	NR14	Q56
	level nom	integer measure	
		1	

number of holes	N_hole
	N _{hole}

The number of holes in an electric, electronic or electromechanical component.

AAF352-001	01	M3	A52
	simple	non-quantitative code)

basic aspect basic aspect

Code of the basic aspect of the shape of an electric/electronic or electromechanical component.

BSH = body shape

- MMT = mounting method
- TPN = terminal exit position non SMD
- TPS = terminal exit position SMD
- TSN = terminal shape non SMD
- TSS = terminal shape SMD

AAF353-001	01	M8	A58
	simple	string	

size code EIA size-EIA

EIA code of the size of an electric/electronic component for placement on printed wiring board.

REMARKS:

The complete code consists of four numerical characters.

- a) the first two numerical characters represent the value of the length in inches.
- b) the second two numerical characters represent the value of the width in inches.

AAF 350-00	,,	simple	non-quantitative code	AJO
reference	vie	w	ref view	
The code in component	ndi t.	cating the a	ngle of vision on a	
BOTTOM FRONT SIDE TOP	= = 1 = 1 = 1	bottom front side top		
AAF357-00)1	01 simple	M3 string	A56
terminal identifier terminal id			terminal id	
The character used to identify a specific terminal of a component.				
REMARKS: Rules should be established how the identifying process should take place.				
AAF358-00)1	01 simple	M3 string	A56
swapabilit	y i	ndicator	swap ind	

The mark that indicates whether the terminal pairs or terminal groups of one function or one component may be exchanged.

REMARKS:

Rules should be established for the identification of swapable terminal pairs respectively terminal groups.

AAF359-001	01	M3	A56
	simple	string	

permutability indicator perm ind

The mark that indicates whether the terminals of one function or one component may be exchanged.

REMARKS:

Rules should be established for the identification of permutable terminals.
Q59

AAF360-001	01 level nom	NR33.3ES2 real measure F	E09	AAF365-001	01 level nom	NR33.3ES2 real measure 1	Q59
max range va	alue	max range value max range value		normal avera	age value	\$m µ	
The maximum a capacitor th series.	n value of n nat is availa	ominal capacitance (i ble within a specific E	n F) of -	The value of f Gauss) proba	the average bility distrib	e in a Normal (Lapla oution.	ace-
AAF361-001	01 level nom	NR33.3ES2 real measure	E09	AAF366-001	01 level nom	NR33.3ES2 real measure 1	Q59
		1		normal stand	lard deviat	tion \$s	
min range va	alue	min range value min range value				σ	
The minimum a capacitor th	value of no nat is availa	ominal capacitance (in ble within a specific E	n F) of E-	The value of t (Laplace-Gau	the standar ss) probab	d deviation in a No ility distribution.	rmal
series.				AAF367-001	01	NR33.3ES2	Q59
AAF362-001	01	NR33.3ES2	Т03		level nom	1	
	level nom	real measure m		Poisson vari	ance value	e m m	
centre of gra	ivity (x-axis	s) C_grav(x-axi C _{grav(x-axis)}	s)	The value of t distribution.	the varianc	e in a Poisson prob	ability
The nominal v the centre of	value of the gravity of a	x-displacement (in m component related to	ı) of o the				
reference poi	nt of that co	omponent.		AAF368-001	01 level nom	NR33.3ES2 real measure	Q59
A A E 3 6 3 - 00 1	01	ND2 23552	T02			1	
AAF303-001	level nom	real measure m	105	Poisson exp	ectation va	a lue m m	
centre of gra	ivity (y-axis	c_grav(y-axi C _{grav(y-axis)}	s)	The value of the distribution.	the expecta	ation in a Poisson p	robability
The nominal	value of the	y-displacement (in m	n) of		04		5 00
reference poi	gravity of a nt of that co	component related to omponent.	o the	AAF 369-001	U1 level nom	NR23.3 real measure 1	E06
AAF364-001	01 simple	M17 non-quantitative cod	A91 de	test voltage	coefficient	∺ k_V(test) k _{V(test)}	
probability d	listribution	prob distr		The factor by	which the	rated voltage has to	be
The name of	a function g	iving the probability t	hat a	be applied to d	a device u	nder test.	tage to
random varial a given set of	bie takes ar Fvalues.	ny given value or belo	ongs to	CECC 30.000)		
NOTE The probabilit	ty on the wr	nole set of values of t	he				

random variable equals 1.

BINOMIAL = binomial distribution NORMAL = normal distribution (Laplace-Gauss) POISSON = Poisson distribution

AAF370-001	01	M17	A59
	simple	string	

MIL specification MIL spec

MIL code of the specification in which an electric, electronic or electromechanical component is released under the MIL quality assessment system.

MIL 883-B

REMARKS:

MIL : Military specification or standard (USA) Quality assessment : The continuous surveillance of the manufacturer of a product to ensure that it conforms to the requirements of the specification to which it was made.

AAF371-001	01	M8	A58
	simple	non-quantitative code	е

adjuster placement adjuster-place

Code of the placement of an adjuster on an electric, electronic component for placement on printedcircuit boards.

BACK	= back	+Y axis
воттом	= bottom	ı -Zaxis
FRONT	= front	-Y axis
LEFT	= left	-X axis
RIGHT	= right	+X axis
ТОР	= top	+Z axis

AAF372-001	01	M8	A58
	simple	non-quantitative code	Э

preformed lead preformed lead

Code of the preforming of leads to create a distance between the component and the seating-plane.

BENT	= bent (90 deg)
CROPPED	= cropped
FLANGE	= with flange
SHOULDER	= shoulderd
SNAPIN	= snap-in
SPACED	= spaced
STRAIGHT	= straight
	-

AAF373-001	01 level nom	NR14 integer measure 1	Q56
number of st	uds	N_std N _{std}	

The number of studs on an electric/electronic or electromechanical component designed for fastening.

AAF374-001 01 NR1..4 Q56 level nom integer measure

number of pitches (x-axis) $\begin{array}{c} N_p(x) \\ N_{p(x)} \end{array}$

The number of pitches between the terminals of an electric/electronic or electromechanical component parallel to the x-coordinate.

AAF375-001	01	NR14	Q56
	level nom	integer measure	
		1	

number of pitches (y-axis) $\begin{array}{c} N_p(y) \\ N_{p(y)} \end{array}$

The number of pitches between the terminals of an electric/electronic or electromechanical component parallel to the y-coordinate.

AAF376-001	01	M3	A58
	simple	non-quantitative code	е

terminal cross-section shape term-cross-shp

Code of the cross-section shape of the terminals of an electric/electronic or electromechanical component.

CIR = circular REC = rectangular

AAF388-001	01	M17	A58
	simple	string	

case size case size

Combination of the reference to a coding system for case sizes and the code of a specific case size within that system of a component.

REMARKS:

Example of a format for the reference to a JEDEC publication: JESD30(PLCC)

AAF389-001	01	NR14	H07
	level max	integer measure	
		W	

non-rep peak reverse power diss P_ZSM

The maximum non-repetitive peak reverse power dissipation (in W) of a stabilising diode at an exponential current function with specified front time, time to half-value and junction temperature prior to the application of the pulse.

AAE271-005 = junction temperature AAE332-005 = virtual front time AAE333-005 = virtual time to half-value

REMARKS:

Current pulse according to the specification given in IEC 60060-1, section 8 (1989).

AAF390-002	01	X8	A56
	simple	non-quantitative code	Э

type of inductor inductor-type

Code identifying the function or application for which the inductor has been developed initially.

ANT	= antenna inductors
CHOKE	= choke
COIL	= coil
DFL	= deflection coil
LINUNIT	= linearity control unit
SOL	= solenoids

AAF391-001	02	X3	A56
	simple	non-quantitative code	Э

connect-node code conn-node code

Code of the type of connect node of a component

E =	electrical
-----	------------

- F = functional
- L = linkage
- M = matter(material)
- MG = gaseous
- ML = liquid
- MS = solid
- O = optical fibre
- W = wave propagation

AAF392-001	01	X8	A58
	simple	non-quantitative code	e

project view code

proj-view code

Coded abbreviation of the two dimensional projection view of an item.

ABOVE	= view from above
BELOW	= view from below
FRONT	= view from the front
LEFT	= view from the left
REAR	= view from the rear
RIGHT	= view from the right

REMARKS:

The reference point for all projection views shall be defined as the centre of the view from the front at the seating plane.

AAF393-001	04 NF	₹33.3ES2	Т03
	level miNoMax	k real	measure
	m		

x-coordinate of the reference point

x-coor ref pt x-coor ref point

The value as specified by level (miNoMax) of the distance on the x-axis (in m) of the reference point to the zero-point.

AAF394-001	04	NR33.	3ES2	Т03
	level miNo	Max	real mea	sure
		m		

y-coordinate of the reference point

y-coor ref pt y-coor ref point

The value as specified by level (miNoMax) of the distance on the y-axis (in m) of the reference point to the zero-point.

AAF395-001	04	NR33.3	ES2	Т03
	level miNo	Max	real	measure
		m		

z-coordinate of the reference point **z-coor ref pt** z-coor ref point

The value as specified by level (miNoMax) of the distance on the z-axis (in m) of the reference point to the zero-point.

AAF396-001	01	NR23.3	Т03
	level nom	real measure	
		1	

scale	scale
	scale

The value of the denominator of the ratio of the real things magnitude to the magnitude of the model.

AAF397-001	01 level nom	NR33.3ES2 real measure m ²	Т05

net area net area net area

The value of the area (in m^2) of a two-dimensional plane defining the effective physical contour of a geometrical object.

AAF398-001	02	NR33.3ES2	Т05
	level nom	real measure	
		m	

gross area gross area gross area

The value of the area (in m^2) of a two-dimensional plane associated with a geometrical object due to installation, protection, operation, service and maintenance reasons.

REMARKS:

- It encloses completely the net area of the geometrical object.
- The gross area is defined as a plane normally not possible to be occupied by other geometrical objects.

AAF399-001	01 level nom	NR33.3ES2 real measure m ³	Т06
net space		net space net space	

The value of the volume (in m^3) of a threedimensional space defining the effective physical contours of a geometrical object.

AAF400-001	02 level nom	NR33.3ES2 real measure m ³	T06
gross space		gross space gross space	

The value of the volume (in m^3) of a threedimensional space associated with a geometrical object due to installation, protection, operation, service and maintenance reasons.

REMARKS:

- It encloses completely the net space of the geometrical object.
- The gross space is defined as a plane normally not possible to be occupied by other geometrical objects.

AAF401-001	02	NR33.3ES2	Т03
	level nom	real measure	
		m	

x-coor preferred mounting position x-coor pref pos

x-coor pref pos

The value of the distance (in m) on the x-axis of the direction of the preferred mounting position of a component.

AAF402-001	02	NR33.3ES2	Т03
	level nom	real measure	
		m	

x-coor preferred mounting position y-coor pref pos

y-coor pref pos

The value of the distance (in m) on the y-axis of the direction of the preferred mounting position of a component.

AAF403-001	02	NR33.3ES2	Т03
	level nom	real measure	
		m	

z-coor preferred mounting position z-coor pref pos

z-coor pref pos

The value of the distance (in m) on the z-axis of the direction of the preferred mounting position of a component.

AAF404-001	01	NR23.3	T01
	level nom	real measure	
		deg	

mounting deviation y/z mount dev y/z mount dev y/z

Specification of the absolute value of the angle (in deg), indicating the maximum rotation deviation from the y-axis within the y/z plane of the threedimensional coordinate system, under which the device fulfils its terms of operation.

AAF405-001	01	NR23.3	T01
	level nom	real measure	
		deg	

mounting deviation y/x mount dev y/x mount dev y/x

Specification of the absolute value of the angle (in deg), indicating the maximum rotation deviation from the y-axis within the y/x plane of the threedimensional coordinate system, under which the device fulfils its terms of operation.

AAF406-001	02	NR33	3.3ES2	Т03
	level mi	NoMax	real mea	isure
		m		

x-coordinate position	x-coor pos-loc
location	x-coor pos-loc

The value as specified by level (miNoMax) of the length (in m) of the x-coordinate of the location of a point on the symmetry-axis of a constructive solid geometry primitive.

AAF407-001	02	NR33.3	SES2	T03
	level miNc	Max	real measu	ure
		m		
v-coordinate	nosition	v-coor n	os-loc	

y-coordinate position	y-coor pos-loc
location	y-coor pos-loc

The value as specified by level (miNoMax) of the length (in m) of the y-coordinate of the location of a point on the symmetry-axis of a constructive solid geometry primitive.

AAF408-001	02 level miNo	NR33.3ES2 Max rea m	T03 I measure
z-coordinate location	position	z-coor pos-l z-coor pos-lo	oc IC
The value as length (in m) point on the s geometry prir	specified by of the z-coo symmetry-ax nitive.	v level (miNoM rdinate of the is of a constru	lax) of the location of a uctive solid
AAF409-001	01 level nom	NR33.3ES2 real measure m	T03
cylinder radi	us	r_cyl r _{cyl}	
The value of	the radius (i	n m) of a cylir	nder.
AAF410-001	01 level miNo	NR33.3ES2 Max rea m	T03 I measure
cylinder heiç	ght	h_cyl h _{cyl}	
The value as specified by level (miNoMax) of the distance (in m) between the two planar circular faces of a cylinder.			lax) of the circular faces
AAF411-001	02 level nom	NR2 S3.3 real measure deg	T01
angle axis to	o x-axis	\$a_x α _x	
The value of the angle (in deg) between the orientation of the axis of a constructive solid geometry primitive and the X-axis of the placement coordinate system.			
AAF412-001	02	NR2 S3.3	T01

	level nom	real measure deg	101
angle axis to	y-axis	\$a_y α _y	

The value of the angle (in deg) between the orientation of the axis of a constructive solid geometry primitive and the Y-axis of the placement coordinate system.

AAF413-001	02	NR2 S3.3	T01
	level nom	real measure	
		deg	

angle axis to z-axis \$a_z α_z

The value of the angle (in deg) between the orientation of the axis of a constructive solid geometry primitive and the Z-axis of the placement coordinate system.

AAF414-001	01	NR33.3ES2	Т03
	level nom	real measure	
		m	
cone radius		r cone	

 $$r_{cone}$$ The value of the radius (in m) of the cone on the axis

at the top of a right circular cone.

AAF415-001	01 NR3	3.3ES2	Т03
	level miNoMax	real meas	sure
	m		
cone height	h_cc	one	
	h _{cone}		

The value as specified by level (miNoMax) of the distance (in m) between the two planar circular faces of a right circular cone, if the radius is greater than zero: or from the base to the apex if the radius equals zero.

AAF416-001	01 level nom	NR23.3 real measure deg	T01
semi angle		\$a_semi α _{semi}	

The value of the angle (in deg) between the axis of the cone and the generator of the conical surface of a right circular cone.

AAF417-001	01 level nom	NR33.3ES2 real measure m	Т03
sphere radius		r-sphere r _{sphere}	

The value of the length of the radius (in m) of a sphere.

AAF418-001	01 level miNo	NR33.3ES2 T03 Max real measure m	3
x-coordinate	e of centre	x-c_sphere x-C _{sphere}	
The value as distance (in r sphere.	specified by n) on the x-a	r level (miNoMax) of the axis of the centre of a	
AAF419-001	01 level miNo	NR33.3ES2 T03 Max real measure m	3
y-coordinate	e of centre	y-c_sphere y-C _{sphere}	
The value as distance (in r sphere.	specified by n) on the y-a	/ level (miNoMax) of the axis of the centre of a	
AAF420-001	01 level miNo	NR33.3ES2 T03 Max real measure m	3
z-coordinate	of centre	z-c_sphere Z-C _{sphere}	
The value as distance (in r sphere.	specified by n) on the z-a	v level (miNoMax) of the axis of the centre of a	
AAF421-001	01 level miNo	NR33.3ES2 T03 Max real measure m	3
major radius	of torus	r_(major-torus) r _(major-torus)	
The value as radius (in m)	specified by of the direct	v level (miNoMax) of the rrix of a torus.	
AAF422-001	01 level miNo	NR33.3ES2 T03 Max real measure m	3
minor radius	s of torus	r_(minor-torus) r _(minor-torus)	
The value as radius (in m)	specified by of the gene	/ level (miNoMax) of the ratrix of a torus.	
AAF423-001	01 level miNo	NR33.3ES2 T03 Max real measure m	3
wedge x-size	9	x_wedge x _{wedge}	

The value as specified by level (miNoMax) of the length (in m) of the right angular wedge along the placement X-axis.

IR33.3ES2 Max real me m	T03 asure	AAF429-001	01 level miNol	NR33.3 ⁄/ax m	ES2 real measure	T03 Ə
y_wedge Y _{wedge}		edge-length		l_edge l _{edge}		
r level (miNoMax) angular wedge alc	of the ng the	The value as length (in m) column.	specified by of the edge	level (mi of a N-ec	NoMax) of the lged regular	Э
NR33.3ES2 Max real me m	T03 asure	AAF430-001	01 level miNol	NR33.3 ⁄Iax m	ES2 real measure	T03 9
z_wedge Z _{wedge}		internal radiu	us	r_inner r _{inner}		
r level (miNoMax) angular wedge alc	of the ng the	The value as length (in m) tube.	specified by of the inner	level (mi radius of	NoMax) of the a right circula	ə ır
NR33.3ES2 Max real me m	T03 asure	AAF431-001	01 level miNol	NR33.3 Max m	ES2 real measure	T03 9
edge_major edge _{major}		external radi	us	r_outer r _{outer}		
r level (miNoMax) of the square bas	of the e plane of	The value as length (in m) tube.	specified by of the outer	level (mi radius of	NoMax) of the a right circula	e ar
NR33.3ES2 Max real me m	T03 asure	AAF432-001	01 level miNol	NR33.3 ⁄/ax m	ES2 real measure	T03 Ə
edge_minor edge _{minor}		minor radius		r_minor r _{minor}		
r level (miNoMax) of the square top rramid.	of the plane of a	The value as length (in m) spherical seg	specified by of the radius ment.	level (mi of the ci	NoMax) of the rcular plane c	e of a
NR33.3ES2 Max real me	T03 asure	AAF433-001	01 simple	M175 string		A56
h prim		installation i	nstruction	install-ir	nstruc	
h _{prim} / level (miNoMax)	of the	The text givin the installatio	g additional n of a comp	informati onent.	on with respe	ct to
he apex and the b el planes of a righ ry primitive.	oase plane It	AAF434-001	01 level nom	NR33.3 real mea m	ES2 sure	Т03
		bending radi	us	r_bend r _{bend}		
	NR33.3ES2 Max real me m y_wedge ywedge ywedge (level (miNoMax) angular wedge alo NR33.3ES2 Max real me m z_wedge yedge wedge vedge wedge vedge_major edge_major edge_major edge_major vedge_major edge_major vedge_major edge_major vedge_major edge_major edge_major vedge_major edge_major vedge	NR33.3ES2 T03 Max real measure m y_wedge velevel (miNoMax) of the angular wedge along the NR33.3ES2 T03 Max real measure m z_wedge Zwedge velevel (miNoMax) of the angular wedge along the NR33.3ES2 T03 Max real measure m edge_major edgemajor velevel (miNoMax) of the of the square base plane of NR33.3ES2 T03 Max real measure m edge_minor velevel (miNoMax) of the of the square top plane of a vramid. NR33.3ES2 T03 Max real measure m edge_minor velevel (miNoMax) of the of the square top plane of a vramid. NR33.3ES2 T03 Max real measure m edge_minor velevel (miNoMax) of the of the square top plane of a vramid. NR33.3ES2 T03 Max real measure m	NR33.3ES2 T03 AAF429-001 Max real measure edge-length y_wedge edge-length ywedge flevel (miNoMax) of the The value as length (in m) column. NR33.3ES2 T03 AAF430-001 Max real measure m z_wedge internal radii Z_wedge internal radii Z_wedge internal radii Z_wedge AAF431-001 Max real measure m cedge_major etoge_major external radii edge_major external radii edge_major external radii m real measure m minor radius of the square base plane of The value as length (in m) edge_minor minor radius flevel (miNoMax) of the The value as length (in m) spherical seg NR33.3ES2 T03 Max real measure m minor radius of the square top plane of a length (in m) spherical seg NR33.3ES2 T03 AAF433-001 Max <td>NR33.3ES2 T03 AAF429-001 01 Max real measure level miNof ywedge edge-length Ywedge edge-length Ywedge internal radius Xwedge internal radius Zwedge internal radius Xwedge AAF431-001 01 Max real measure real measure m edge_major external radius edge_major external radius revel (miNoMax) of the of the square base plane of m The value as specified by length (in m) of the outer tube. NR33.3ES2 T03 AAF432-001 01 Max real measure m minor radius edge_minor revel (miNoMax) of the of the square top plane of a ramid. The value as specified by length (in m) of the radius spherical segment. NR33.3E</td> <td>IR33.3ES2 T03 AAF429-001 01 NR33.3 Image: Second Second</td> <td>IR33.3ES2 T03 AAF429-001 01 NR33.3ES2 level miNoMax real measure m y_wedge y_wedge y_wedge edge-length l_edge leage r/level (miNoMax) of the angular wedge along the The value as specified by level (miNoMax) of the length (in m) of the edge of a N-edged regular column. NR33.3ES2 T03 AAF430-001 01 NR33.3ES2 level miNoMax real measure m NR33.3ES2 T03 AAF430-001 01 NR33.3ES2 level miNoMax real measure m r/level (miNoMax) of the angular wedge along the internal radius r_inner r/level (miNoMax) of the angular wedge along the The value as specified by level (miNoMax) of the length (in m) of the inner radius of a right circule tube. NR33.3ES2 T03 AAF431-001 NR33.3ES2 level miNoMax real measure m r/level (miNoMax) of the of the square base plane of m The value as specified by level (miNoMax) of the length (in m) of the outer radius of a right circula tube. NR33.3ES2 T03 AAF432-001 NR33.3ES2 level miNoMax real measure m redge_minor minor radius r_minor r_minor r/level (miNoMax) of the of the square top plane of a real measure m AAF433-001 N</td>	NR33.3ES2 T03 AAF429-001 01 Max real measure level miNof ywedge edge-length Ywedge edge-length Ywedge internal radius Xwedge internal radius Zwedge internal radius Xwedge AAF431-001 01 Max real measure real measure m edge_major external radius edge_major external radius revel (miNoMax) of the of the square base plane of m The value as specified by length (in m) of the outer tube. NR33.3ES2 T03 AAF432-001 01 Max real measure m minor radius edge_minor revel (miNoMax) of the of the square top plane of a ramid. The value as specified by length (in m) of the radius spherical segment. NR33.3E	IR33.3ES2 T03 AAF429-001 01 NR33.3 Image: Second	IR33.3ES2 T03 AAF429-001 01 NR33.3ES2 level miNoMax real measure m y_wedge y_wedge y_wedge edge-length l_edge leage r/level (miNoMax) of the angular wedge along the The value as specified by level (miNoMax) of the length (in m) of the edge of a N-edged regular column. NR33.3ES2 T03 AAF430-001 01 NR33.3ES2 level miNoMax real measure m NR33.3ES2 T03 AAF430-001 01 NR33.3ES2 level miNoMax real measure m r/level (miNoMax) of the angular wedge along the internal radius r_inner r/level (miNoMax) of the angular wedge along the The value as specified by level (miNoMax) of the length (in m) of the inner radius of a right circule tube. NR33.3ES2 T03 AAF431-001 NR33.3ES2 level miNoMax real measure m r/level (miNoMax) of the of the square base plane of m The value as specified by level (miNoMax) of the length (in m) of the outer radius of a right circula tube. NR33.3ES2 T03 AAF432-001 NR33.3ES2 level miNoMax real measure m redge_minor minor radius r_minor r_minor r/level (miNoMax) of the of the square top plane of a real measure m AAF433-001 N

The value, as specified by the manufacturer, of the maximum allowed radius (in m) when bending a conductor or connector into a curve.

AAF435-001	01 N simple	/3 non-quantitative cod	A58 e	AAF442-001	01 simple	X8 non-quantitative code	A52
terminal con	nection typ	e term-conn-ty	ре	toleranced v	alues	tol values	
Code of the ty connector is b	ype of conne being desigr	ection a terminal or led for		Code of a fea tolerances.	ture class c	ontaining values with	
1 = solde 10 = flat 2 = welde 5 = corrected	ered ed			TOLCAP = TOLRES =	toleranced o toleranced r	capacitance resistance	
6 = wire- 7 = termi 8 = insul	wed wrapped -point ation displac	cement connection		AAF443-001	01 level nom	NR2 S3.3 real measure %	R71
AAF436-001	01 level nom	NR23.3 real measure	Т07	symmetric to percentage to	olerance olerance	%tol %tol	
simultaneity	factor	1 F_simult F _{simult}		The percenta value of a cha and negative	ge tolerance aracteristic p tolerance va	e (in %) on the nomina property where both po alues are equal.	l ositive
The value of handling and handling of a	the ratio of ´ 2) the maxir component.	I) the effective time o num available time of	f	AAF444-001	01 level nom	NR2 S3.3 real measure %	R71
AAF437-001	01 level nom	NR14 integer measure	Q56	negative tole	erance	%tol- %tol-	
column type number of co	lumns	1 n_column n _{column}		The negative %) on the nor where positive unequal.	value of the ninal value o e and negat	e percentage tolerance of a characteristic prop ive tolerance values a	e (in perty re
The value ind the column ty	icating the r pe.	number of corners de	fining	AAF445-001	01 level nom	NR2 S3.3 real measure %	R71
AAF440-001	01 simple	X8 non-quantitative cod	A52 e	positive tole	rance	%tol+	
features		features		-			
Code of a ma	in feature cl	ass		on the nominal value of a characteristic property			
CPLX = comp TOL =	olex number toleranced v	value ⁄alue		where positive unequal.	e and negat	ive tolerance values a	re
AAF441-001	01 simple	X8 non-quantitative cod	A52 e	AAF446-001	01 level nom	NR33.3ES2 real measure F	E09
complex nun	nbers	complex nos		capacitance		c	
Code of a fea as complex n	ture class c umbers.	ontaining values expr	ressed	The nominal v	value of the	capacitance (in F) of a	an
ADM = admi	ttance			electric comp	onent having	g a capacitance prope	rty.

IMP = impedance

AAF447-001 01 level nom	NR33.3ES2 real measure F	E09	AAF452-001	01 level nom	NR33.3ES2 real measure Ω	E33
symmetric capacitance	tolerance C_to C _{tol}	I	negative res	istance tole	erance	R_tol- R _{tol-}
The absolute tolerance (the capacitance of an ele positive and negative tole	in F) on the nominal v ectric component whe erance values are eq	value of ere both ual.	The negative ohms) on the electric comp tolerance valu	value of the nominal va onent where ues are une	absolute toler lue of the resis positive and r qual.	ance (in tance of an negative
AAF448-001 01 level nom	NR33.3ES2 real measure F	E09	AAF453-001	01 level nom	NR33.3ES2 real measure Ω	E33
negative capacitance to	olerance C_to C _{tol-}	1-	positive resi	stance tole	rance	R_tol+
The negative value of the on the nominal value of t electric component where tolerance values are une	e absolute tolerance (he capacitance of an e positive and negativ qual.	(in F) ve	The positive v ohms) on the electric comp tolerance valu	value of the nominal va onent where ues are une	absolute tolera lue of the resis e positive and r qual.	ance (in tance of an negative
AAF449-001 01 level nom	NR33.3ES2 real measure F	E09	AAF454-001	01 level miNo	NR1 S13 Max integer	E43 measure
positive capacitance to	lerance C_to C _{tol+}	+	phase angle		\$f տ	
The positive value of the the nominal value of the component where positiv values are unequal.	absolute tolerance (i capacitance of an ele e and negative tolera	in F) on ectric ance	The value as angle (in deg	given by lev) of a compl	Ψ /el (miNoMax) ex electrical qι	of the phase Jantity.
AAF450-001 01 level nom	NR33.3ES2 real measure Ω	E33	AAF455-001	01 level miNo	NR3 S3.3ES Max real rad	2 E43 measure
resistance	R R		phase angle		\$f φ	
The nominal value of the electric component havin	resistance (in ohms) g a resistance prope) of an rty.	The value as angle (in rad)	given by lev of a comple	vel (miNoMax) ex electrical qu	of the phase antity.
AAF451-001 01 level nom	NR33.3ES2 real measure Ω	E33	AAF456-001	01 level miNo	NR33.3ES2 Max real Ω	E44 measure
symmetric resistance to	olerance R_to	I	modulus of i absolute valu	mpedance e of impeda	nce	Z Z
The absolute tolerance (value of the resistance o where both positive and are equal.	in ohms) on the nomi f an electric component negative tolerance va	nal ent alues	The modulus (miNoMax) of component ha	or absolute the impeda aving an imp	value as giver ince (in ohms) pedance prope	n by level of an electric rty.

AAF457-001	01 level miNol	NR33. 3 Max	BES2 real measur	E44 re	AAF462-001	01 class instar	ıce	E09 AAA238-001
resistance		R R			toleranced ca	apacitance	c C	
The reactive of (miNoMax) of component ha	or imaginary the impeda aving an imp	part as g nce (in ol pedance p	given by leve nms) of an el property.	l ectric	The value of t together with and at referen	the capacita its tolerance nce condition = frequency	nce of a fix as at specifi ns.	ted capacitor fied frequency
AAF458-001	01 level miNol	NR33. 3 Max Ω	BES2 real measur	E44 re	AAE995-005	= reference 01	conditions	E33
reactance		S			toleranced re	class instar	nce R	AAA239-001
						sistance	R	
The resistive (miNoMax) of component ha	or real part the impeda aving an imp	as given nce (in ol edance p	by level nms) of an el property.	ectric	The value of t together with conditions.	the resistance its tolerance	ce of a fixe es at specif	d linear resistor fied reference
AAF459-001	01 level miNol	NR33.3 Max	BES2 real measur	E45 re	AAE995-005	= reference	conditions	
modulus of a	i dmittance e of admitta	Y nce Y			AAF464-001	01 simple	M8 non-quant	A56 itative code
				- 1	connector pa	art type	connecto	r part
(miNoMax) of component ha	or absolute the admitta aving an adr	value as nce (in S nittance p	given by leve) of an electr property.	ic	Code of the ty	/pe of a con	nector part	
AAF460-001	01 level miNol	NR33. 3 Max S	SES2 real measu	E45 re	ACCY = CONTACT = INSERT = SHELL = TOOL =	connector a connector co connector in connector sl connector to	ccessory ontact isert hell ool	
conductance		G G			AAF465-001	01 simple	M80 string	A56
The reactive of (miNoMax) of	or imaginary the admitta	part as g nce (in S	given by leve) of an electr	l ic	accessory ty	pe	accessor	y
component na	aving an aur	nitiance p	property.		Description of	f the type of	connector	accessory.
AAF461-001	01 level miNol	NR33. 3 Max S	BES2 real measur	E45 re	AAF466-001	01 simple	M80 string	A56
susceptance		в			tool type		tool	
The resistive (miNoMax) of	or real part the admitta	B as given nce (in S	by level) of an electr	ic	Description of connector.	f the type of	tool to be	used with a
component ha	aving an adr	nittance p	property.		AAF467-001	01 simple	M80 string	A56
					shell type housing type		shell	

Description of the type of connector shell

AAF468-001 01 sim	ple	M80 string	A56	AAG003-001	01 level miNo	NR33. Max m	3ES2 real measur	T03 e
insert type		insert				• •		
Description of the	type o	f connector insert		package heig package thick	ght (ness	A_2 A ₂		
AAF469-001 01 sim _i	ple	M80 string	A57	The distance of the furthes plane, measu plane.	(in m) as s t part of the red in a dire	becified b compon- ection pe	y level (miNol ent above the rpendicular to	Max) base the
insert material		insert material		BS3934 issue	e 1 : 1975			
Description of the connector insert is	type o s made	f material of which a		DAE001-001	Package le	ngth, wid	th and height	
AAG000-001 01 sim _i	ple	X3 non-quantitative code	A52	AAG004-001	01 level miNo	NR33. Max m	3ES2 real measur	T03 e
geometry type		geometry type		terminal circ	le diamete	r \$fa		
Code of the type o	of geon	netry possessed by an			de diamete	Øa		
DIE = Die device PAK = Pack	es kage ou	itlines		The diameter of the circle u located.	(in m) as s pon which	pecified t the termin	oy level (miNo nal positions a	Max) are
AAG001-001 01 leve	el miNo	NR33.3ES2 Max real measu m	T03 re	NOTE Where there i present, Øa is	is more thai s the diame	n one terr ter of the	minal circle largest circle	
control baight		Δ.		BS3934 issue	e 1 : 1975			
mounted height		A A		DAE004-001	Cylindrical	package	dimensions	
The distance (in m of the furthest part seating plane, mea to the plane.	n) as sp t of the asured	pecified by level (miNo component above the in a direction perpend	Max) licular	AAG005-001	01 level miNo	NR33. Max m	3ES2 real measur	T03 e
BS3934-1: 1992				stand-off ma	ijor dimens	ion B	5	
DAE001-001 Pack	kage le	ngth, width and height				J		
				The major dir (miNoMax) of	nension (in f the cross-s	m) as sp section of	ecified by leve the stand-off)
AAG002-001 01 leve	el miNo	NR33.3ES2 Max real measu m	T03 re	NOTE This dimension the width of the second	on applies to he wider se	o a separ ction of s	ate stand-off houldered	or to
stand-off height clearance		A_1 A ₁		terminations component of	which have ff from the s	the effec eating pl	t of standing t ane.	he
The perpendicular	r distan	ce (in m) as specified	by	BS3934 issue	e 1 : 1975			
base plane.	Jermeer	r me searing plane and	าแล	DAE005-001	In-line pack	age dime	ensions	

BS3934 issue 1 : 1975

DAE001-001 Package length, width and height

AAG006-001 01 NR3..3.3ES2 T03 level miNoMax real measure m

stand-off minor dimensionB_1shoulder thicknessB1

The minor dimension (in m) as specified by level (miNoMax) of the cross-section of the stand-off.

NOTE

This dimension applies to a separate stand-off or to the thick-ness of the wider section of shouldered terminations which have the effect of standing the component off from the seating plane.

BS3934 issue 1 : 1975

AAG007-001	01	NR33	3.3ES2	т03
	level mi	NoMax	real mea	asure
		m		
stand-off dia	meter	\$fB		
		ØВ		

The diameter (in m) as specified by level (miNoMax) of the cross-section of the stand-off.

BS3934 issue 1 : 1975

AAG008-001	01	01 NR33.3ES2	
	level miNoM	1ax rea	l measure
		m	
terminal wid	th	b	
lead width		b	

The width (in m) as specified by level (miNoMax) of a square terminal or the length of the major axis of a terminal with a rectangular cross-section.

NOTE

This dimension applies to that part of the terminal which is or may be used for connection to the circuit in which it is mounted.

BS3934 issue 1:1975

DAE005-001 In-line package dimensions

AAG009-001	01	NR3.	.3.3ES2	Т03
	level	miNoMax	real mea	asure
		m		

terminal diameter	\$fb
lead diameter	Øb

The diameter (in m) as specified by level (miNoMax) of the circumscribed circle containing the terminal.

BS3934 issue 1 : 1975

REMARKS: The terminal need not have a circular cross-section.

DAE009-001 Lead lengths and diameters

AAG010-001	01 NR33.3ES2			Т03
	level	/el miNoMax real mea		easure
		m		

terminal diameter\$fb_0lead diameterØb0

The diameter (in m) as specified by level (miNoMax) of the circumscribed circle containing the terminal.

NOTE

 $\ensuremath{\ensuremath{\mathcal{O}}}\xspace_{b_0}$ refers to the terminal diameter over the terminal length defined by L_0.

BS3934 issue 1 : 1975

REMARKS: The terminal need not have a circular cross-section.

DAE009-001 Lead lengths and diameters

AAG011-001	01	01 NR33.3ES2		
	level	miNoMax	real me	asure
		m		

terminal diameter\$fb_2lead diameterØb2

The diameter (in m) as specified by level (miNoMax) of the circumscribed circle containing the terminal.

NOTE

 $Øb_2$ refers to the terminal diameter over the terminal length defined by $L_2 - L_1$.

BS3934 issue 1 : 1975

REMARKS:

The terminal need not have a circular cross-section.

AAG012-001	01	1 NR33.3ES		Т03
	level miNol	Max	real me	easure
		m		

terminal thickness	С	
lead thickness	С	

The length (in m) as specified by level (miNoMax) of the minor axis of a terminal with a rectangular cross-section.

NOTE

This dimension applies to that part of the terminal which is or may be used for connection to the circuit in which it is mounted.

BS3934 issue 1 : 1975

DAE012-001 Terminal splay dimensions

AAG013-001	01	NR3.	.3.3ES2	Т03
	level	miNoMax	real me	asure
		m		
package leng	yth	D		
		D		

The major dimension (in m) as specified by level (miNoMax) of the package, excluding terminals presented for mounting in the length direction, measured in a plane parallel to the seating plane.

NOTE

If terminals presented for mounting in the width direction extend beyond the ends of the package body the package length includes the width of such terminals.

BS3934 issue 1 : 1975

REMARKS:

If terminals are present on one or two sides of the package only, they are deemed to extend in the width direction.

DAE001-001 Package length, width and height

AAG014-001	01	NR33	.3ES2	Т03
	level	miNoMax	real mea	asure
		m		
package diar	neter	\$fD		
		ØD		

The major diameter (in m) as specified by level (miNoMax) of the package, excluding terminals, measured in a plane parallel to the seating plane.

BS3934 issue 1 : 1975

DAE004-001 Cylindrical package dimensions

AAG015-001	01	NR33.3	BES2	T03
	level miNo	Max	real measu	re
		m		

stand-off spacing d

The linear spacing (in m) as specified by level (miMoMax) between true positions of centres of stand-offs.

BS3934 issue 1 : 1975

AAG016-001	01	NR3:	3.3ES2	Т03
	level miNoMax		real mea	asure
		m		
package wid	th	Е		
		E		

The minor dimension (in m) as specified by level (miNoMax) of the package, excluding terminals, measured in a plane parallel to the seating plane.

BS3934 issue 1: 1975

REMARKS:

If terminals are present on one or two sides of the package only, they are deemed to extend in the width direction.

DAE001-001 Package length, width and height

AAG017-001	01	NR3.	.3.3ES2	Т03
	level	miNoMax	real me	asure
		m		
terminal sna	rina	۵		
lead spacing	sing	e		
		-		
The linear spa	acina	(in m) as sp	ecified by le	vel

(miNoMax) between the true positions of terminal centres.

BS3934 issue 1 : 1975

DAE005-001 In-line package dimensions

AAG018-001	01	NR33.	3ES2	Т03
	level m	iNoMax	real mea	sure
		m		
flange zone l	height	F		
		F		

The overall dimension (in m) as specified by level (miNoMax) of the flange zone, including any fillet, measured in a perpendicular direction from the base plane.

BS3934 issue 1 : 1975

AAG019-001	01	NR33.	3ES2	Т03
	level mil	NoMax	real me	easure
		m		

flange heightF_1flange thicknessF1

The overall dimension (in m) as specified by level (miNoMax) of the flange zone, excluding any fillet, measured in a perpendicular direction from the base plane.

BS3934 issue 1 : 1975

AAG020-001	01 NR	33.3ES2	Т03
	level miNoMax	real	measure
	m		

package length zone G_D G_D

The length (in m) as specified by level (miNoMax) of a zone in the direction of the package length which includes the package length, package irregularities and the uncontrolled part of any terminals which are presented for mounting in the length direction.

BS3934 issue 1: 1975

AAG021-001	01	NR33	.3ES2	Т03
	level miN	loMax	real mea	asure
		m		
package wid	th zone	G_E G∈		

The length (in m) as specified by level (miNoMax) of a zone in the direction of the package width which includes the package width, package irregularities and the uncontrolled part of any terminals which are presented for mounting in the width direction.

BS3934 issue 1 : 1975

DAE021-001 Package overall widths

01	NR33.3	ES2	T03
level miNol	Max	real measur	е
	m		
neter zone	\$fG		
	01 level miNoN neter zone	01 NR33.3 level miNoMax m neter zone \$fG	01 NR33.3ES2 level miNoMax real measur m neter zone \$fG ØG

The diameter (in m) as specified by level (miNoMax) of a zone which includes the package diameter, package irregularities and the uncontrolled part of any terminals which are presented for mounting radially.

BS3934 issue 1 : 1975

AAG023-001	01	NR33.3ES2	Т03
	level miNoMax	real measur	е
	m		

overall length	H_D H⊳	

The largest overall dimension (in m) as specified by level (miNoMax) in the direction of the package length which includes the package length and any terminals which are presented for mounting in the length direction.

BS3934 issue 1 : 1975

AAG024-001	01 I	NR33.3ES2	Т03
	level miNoM	ax real	measure
	I	n	

overall width $H_E H_E$

The largest overall dimension (in m) as specified by level (miNoMax) in the direction of the package width which includes the package width and any terminals which are presented for mounting in the width direction.

BS3934 issue 1 : 1975

DAE021-001 Package overall widths

AAG025-001	01	NR33.3	ES2	T03
	level miNol	Max	real measur	e
		m		
overall diam	eter	\$fH		

ØН

The largest overall diameter (in m) as specified by level (miNoMax) which includes all terminals which are presented for mounting radially.

BS3934 issue 1 : 1975

AAG026-001	01 NR3	3.3ES2	Т03
	level miNoMax	real	measure
	m		
index height	h		
index depth	h		

The height or depth (in m) as specified by level (miNoMax) of an index feature.

BS3934 issue 1 : 1975

AAG027-001 01 level miNo	NR33.3ES2 T03 oMax real measure m	AAG030-001 01 level miNo	NR33.3ES2 T03 oMax real measure m
index width	j	terminal length lead length	L_0 L ₀
The width (in m) as spec an index feature.	cified by level (miNoMax) of	The length of terminal (i (miNoMax) available for	n m) as specified by level mounting measured from
BS3934 issue 1 : 1975		the seating plane.	
DAE004-001 Cylindrical	package dimensions	NOTE L_0 refers to that part of t diameter Øb ₀ is closely	he terminal over which the controlled.
AAG028-001 01	NR33.3ES2 T03	BS3934 issue 1 : 1975	
level mind	m	DAE009-001 Lead lengt	hs and diameters
index length	k k	AAG031-001 01 level miNo	NR33.3ES2 T03 oMax real measure
The length (in m) as spe an index feature.	ecified by level (miNoMax) of		m
NOTE On cylindrical packages is measured from the ov	, the index length (e.g. tab) /erall diameter *D of the	terminal length lead length The length (in m) as spe	L_1 L1 ecified by level (miNoMax) of
		terminal available for mo seating plane.	ounting measured from the
BS3934 Issue 1: 1975		NOTE	
DAE004-001 Cylindrical	package dimensions	L ₁ refers to that part of t diameter Øb ₁ is closely	he terminal over which the controlled.
AAG029-001 01	NR33.3ES2 T03	BS3934 issue 1 : 1975	
	m	DAE009-001 Lead lengt	hs and diameters
terminal length lead length	L L	AAG032-001 01	NR33.3ES2 T03
The length (in m) as spe terminal available for mo	ecified by level (miNoMax) of ounting measured from the		m
seating plane.		terminal length lead length	L_2 L ₂
BS3934 issue 1 : 1975		The length (in m) as an	aified by lovel (milleMari) of
DAE009-001 Lead lengt	hs and diameters	terminal available for m	ounting measured from the

NOTE L_2 refers to that part of the terminal over which the diameter $\ensuremath{\emptyset b_2}$ is closely controlled.

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seating plane.

AAG033-001	01 NR	33.3ES2	Т03
	level miNoMax	real	measure
	m		

terminal lengthL_Dlead lengthL_D

The length (in m) as specified by level (miNoMax) of controlled terminal zone for mounting measured from the end of the terminal in the direction of the package length.

BS3934 issue 1 : 1975

AAG034-001	01 NR	33.3ES2	Т03
	level miNoMax	real	measure
	m		

terminal lengthL_Elead lengthLE

The length (in m) as specified by level (miNoMax) of controlled terminal zone for mounting measured from the end of the terminal in the direction of the package width.

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DAE021-001 Package overall widths

AAG035-001	01 NR	33.3ES2	Т03
	level miNoMax	real	measure
	m		

mounted length M_D M_D

The overall length, (in m) as specified by level (miNoMax), in the package length direction which includes the package length and any terminals which are bent to be perpendicular to the seating plane.

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AAG036-001	01 NR3.	3.3ES2	Т03
	level miNoMax	real mea	sure
	m		

mounted width M_E

The overall width, (in m) as specified by level (miNoMax), in the package width direction which includes the package width and any terminals which are bent to be perpendicular to the seating plane.

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DAE012-001 Terminal splay dimensions

AAG037-002	01 Nom	NR14 intege	r measur	Q56
quantity of te number of pot	erminal pos ential termi	itions nals	n n	
The total quar accordance w system.	ntity of pote ith the spec	ntial te ified te	rminal po erminal de	ositions in esignation
BS3934 issue	1:1975			
REMARKS: The actual qu than n.	antity of ter	minals	present i	may be less
DAE004-001	Cylindrical p	backag	e dimens	ions
AAG038-001	01 level Max	NR1	4 r measur	Q56
quantity of m	issing tern	ninals	l	n_1 n₁
The maximum which can be	l quantity of unoccupied	potent	tial termir	nal positions
BS3934 issue	1 : 1975			
AAG039-001	01 level miNol	NR3 Max m	3.3ES2 real r	T03 neasure
mounting ho	le diameter		\$fp Øp	
The diameter of the hole in	(in m) as sp the package	becified e used	l by level for moun	(miNoMax) ting.
BS3934 issue	1:1975			
DAE042-001	Oval flange	-mount	package	dimensions
AAG040-001	01 level miNol	NR3. . Max m	3.3ES2 real r	T03 neasure
terminal eme	rgence hei	ght	Q Q	
The distance from the seati terminals whe	(in m) as sp ng plane to re they eme	ecified the un erge fro	by level derside c om the pa	(miNoMax) of the ockage.

BS3934 issue 1 : 1975

DAE040-001 Terminal emergence height

AAG041-001	01	NR33	.3ES2	Т03
	level	miNoMax	real me	asure
		m		

terminal emergence dimension Q_1 Q1

The distance (in m) as specified by level (miNoMax) from the seating plane to the underside of the terminals where they emerge from the package.

BS3934 issue 1 : 1975

AAG042-001	01 N	NR33.3E	ES2	т03
	level miNoM	ax	real	measure
	r	n		

q q

mounting hole separation

The distance (in m) as specified by level (miNoMax) between the centres of two mounting holes.

BS3934 issue 1 : 1975

DAE042-001 Oval flange-mount package dimensions

AAG043-001	01 NR3.	3.3ES2	T03
	level miNoMax	real measure	e
	m		
curve radius	r		
	r		

The radius (in m) as specified by level (miNoMax) of a curve forming a part of the package outline.

BS3934 issue 1 : 1975

AAG044-001	01	NR33.3	ES2	Т03
	level miNol	Max	real	measure
		m		

terminal reference position S

The distance (in m) as specified by level (miNoMax) from a reference line to the centre of a terminal position.

BS3934 issue 1 : 1975

AAG045-001	01 NR3	33.3ES2	Т03
	level miNoMax	real me	asure
	m		

s s

terminal reference position

The distance (in m) as specified by level (miNoMax) from a line through the centres of two terminal positions to the centre of the mounting hole which is furthest from the line.

BS3934 issue 1 : 1975

DAE042-001 Oval flange-mount package dimensions

AAG046-001	01	NR33.3	ES2	T03
	level miNoM	lax	real measur	е
		m		

package overhang Z Z

dimensions shall not be used.

The distance (in m) as specified by level (miNoMax) from the end terminal true position to the extremity of the package.

BS3934 issue 1 : 1975

REMARKS: In the case where the terminals extend beyond the package, Z shall be specified as zero. Negative

DAE005-001 In-line package dimensions

AAG047-001	01	NR23.3	T01
	level miNol	Max deg	real measure

index datum angle \$a α

The angular spacing (in degrees) as specified by level (miNoMax) between the index feature and the first terminal true position on a terminal circle.

BS3934 issue 1 : 1975

DAE004-001 Cylindrical package dimensions

AAG048-001	01	NR23.3	T01
	level	miNoMax	real measure
		deg	

index datum angle $a_A \alpha_A$

The angular spacing (in degrees) as specified by level (miNoMax) between the index feature and the first terminal true position on the terminal circle with the largest diameter.

BS3934 issue 1 : 1975

AAG049-001	01	NR23.3	Т)1
	level miNoM	lax deg	real measure	
		aog		

angular terminal spacing \$b β

The angular spacing (in degrees) as specified by level (miNoMax) between true positions of terminal centres on a terminal circle.

BS3934 issue 1 : 1975

DAE004-001 Cylindrical package dimensions

AAG050-001	01	NR23.3	T01
	level miNo	Max	real measure
		aeg	

angular terminal spacing \$b_A β_A

The angular spacing (in degrees) as specified by level (miNoMax) between true positions of terminal centres on the terminal circle with the largest diameter.

BS3934 issue 1: 1975

AAG051-001	01	NR23.3	Т	01
	level miNo	Лах	real measure	
		deg		
angular term	inal spread	\$h		

θ

The angle (in degrees) as specified by level (miNoMax) between the terminal and the seating plane.

BS3934 issue 1 : 1975

DAE012-001 Terminal splay dimensions

AAG052-001	01	NR23.3	T01
	level	miNoMax	real measure
		deg	

terminal seating angle $h_1 \theta_1$

The angle (in degrees) as specified by level (miNoMax) between the terminal and the seating plane.

BS3934 issue 1: 1975

AAG053-001	01	NR33.	3ES2	Т03
	level miNoM	/lax	real me	easure
		m		

terminal row spacing e_E lead row spacing e_E

The distance (in m) as specified by level (miNoMax) between lines parallel to the package length and passing through the true centres of terminal positions, measured in a direction parallel to the package width.

NOTE

For surface-mount packages, this measurement refers to the centres of the lands on which the package is mounted.

AAG054-001	02	X 4	A58
	simple	non-quantitative code	;

terminal variant code terminal var

The code of the name which identifies a particular variant of the shape of the terminals on a package.

T000	= standard form
T001	= straight leads
T002	= formed leads
T003	= leads on a circle
T004	= straight leads in line
T005	= formed leads in line
T006	= leads on a square grid
T007	= offset leads
T008	= straight tags
T009	= round pins
T010	= rectangular pins
T011	= straight flat leads
T012	= solder balls
T013	= one fixed tag
T014	= two fixed tags
T015	= one lead with tag
T016	= two leads with tags
T017	= three leads with tag
T018	= one lead no tag
T019	= strip leads
T020	= multiple leads
T021	= three leads
T022	= two leads, stub and tab
T023	= straight V-section leads

IEC 60191-4 (1999)

AAG055-001	02	X 4	A57
	simple	non-quantitative code	;

body variant code body variant

The code of the name which identifies a particular variant of the shape of the body on a package.

B000	= standard form
B001	= bumped package
B002	= non-bumped package

- B003 = plain cylindrical
- B004 = top hat package
- B005 = clamp mount package
- B006 = stud mount package
- B007 = cavity up
- B008 = cavity down
- B009 = non-cavity package (moulded)
- B010 = cavity package (ceramic)

IEC 60191-4 (1999)

AAG056-001	01	A 1	A58
	simple	non-quantitative code	e

terminal position code terminal pos

A prefix to the IEC 60191-4 code which identifies the position of the terminals on the package body.

- A = axial
- B = bottom
- D = double
- E = end
- L = lateral
- P = perpendicular
- Q = quad
- R = radial
- S = single
- T = triple
- U = upper
- Z = zig-zag

IEC 60191-4 (1999)

AAG057-001	01	A 2	A58
	simple	non-quantitative code)

package style code package style

The IEC 60191-4 code which identifies the general physical form of the package.

BD	= bead
00	= chin carrier
CP	- clamped
CY	= cylindrical
DB	= disc
FM	= flange mount
FO	= fibre-optic
FP	= flat pack
GA	= grid array
IP	= in line
LF	= long-form
MA	= microelectronic
MP	= power module
MW	= microwave
PF	= press-fit
РМ	= Post mount
RC	= rectangular
SO	= small outline
~~	

- SS = special shape
- UC = uncased chip
- VP = vertical surface-mount

IEC 60191-4 (1999)

AAG058-001 01

lead form code

A 1	A58
non-quantitative code	

simple terminal shape code

terminal shape

A suffix to the IEC 60191-4 code which identifies the form or shape of the terminals.

NOTE

If more than one terminal is used, the code to be used shall be that for the terminal which carries the principal current.

- A = screw
- B = butt
- C = C-bend
- D = solder lug
- E = faston plug
- F = flat
- G = gull wing
- H = high current cable
- I = insulated
- J = J-bend
- L = L-bend
- N = no lead
- P = pin or peg
- Q = quick-connect
- R = wrap-around
- S = S-bend
- T = through-hole
- U = J-inverted
- W = wire
- Y = screw
- IEC 60191-4 (1999)

AAG059-001	01	NR14	Q56
	level Nom	integer measure	

actual quantity of termination	n_2	
actual terminal number	n ₂	

The actual quantity of potential terminal positions which are occupied.

AAG061-001	01	М32	A58
	simple	string	

A code used to identify the physical features of a component package which, when used with an optional suffix can provide a unique reference to a package and associated dimension set.

NOTE

The code is made up of seven fields with separators :body shape (optional)- (hyphen separator)body material (optional)terminal position (optional)package style (mandatory)- (hyphen separator)terminal shape (optional)terminal count (optional)/.

IEC 60191-4 (1999)

REMARKS:

The body material prefix may only be used if the terminal position prefix is also present. Hyphen and solidus separators are only used when the relevant prefixes and suffixes are present.

AAG062-001	01	NR33.3ES2		Т03
	level miNol	elmiNoMax realm		neasure
		m		

package diameter \$fD_1 ØD1

A diameter (in m) as specified by level (miNoMax) of a package, excluding terminals, measured in a plane parallel to the seating plane.

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REMARKS: ØD1 is usually smaller than ØD

DAE119-001 Dimensions of packages with tags

AAG063-001	01 NR33	3.3ES2 1	FO3
	level miNoMax	real measure	
	m		
flange length	D_1 D1		

The length (in m) as specified by level (miNoMax) of a flange measured in the direction of the package length.

AAG064-001	01	NR33.3ES2		T03
	level miNol	el miNoMax real r		e
		m		

mounting hole position q_1

The distance (in m) as specified by level (miNoMax) of the centre of a mounting hole from a reference line on the package.

AAG065-001	01	NR3.	.3.3ES2	Т03
	level	miNoMax	real me	asure
		m		
stand-off len shoulder leng	gth th	L_1 L1		

The length (in m) as specified by level (miNoMax) of a stand-off feature.

NOTE

This dimension applies to a separate stand-off or to the length of the wider section of shouldered terminations which have the effect of standing the component off from the seating plane.

AAG066-001	01	M 7	A58
	simple	string	

drawing reference code drawing ref

Reference to the identity of the drawing on which the dimension set is based.

NOTE

The drawing reference code is made up of four fields with one separator :terminal position (one letter)package style (two letters)- (hyphen separator)terminal shape (one letter)numeric sequence code (two digits).

IEC 60191-4 (1999)

AAG067-001	01	M35	A61
	simple	string	

source document identification source doc

Reference to the identifier for the document from which a dimension set was taken.

NOTE

The document may be a manufacturer's data sheet or data book or it may be a specification such as IECQ, CECC or MIL.

AAG068-001	01	M7	A61
	simple	string	

source document page source page

The number of the page in the source document on which the dimension set is given.

AAG069-001	01	M35	A58
	simple	string	

manufacturer package code manuf code

The code by which the manufacturer identifies the package style or a specific dimension set.

NOTE

If necessary, a code may be supplemented by descriptive text to distinguish variants.

AAG070-001	01	M17	A58
	simple	string	

standard package code standard code

The code of a standard dimension set taken from a standards document.

REMARKS:

See AAG071 for identity of the standards document

AAG071-001	01	M17	

071-001	01	M17	A61
	simple	string	

standards document standards ref reference

The identity of a standards document that contains lists of dimension sets for electric or electronic components.

NOTE

The standard may be international, such as IEC 60191, or a corresponding national standard, such as JEDEC JESD 95, BS 3934, etc.

AAG072-001	02	A3	A58
	simple	non-quantitative coo	de
termination sequence	count	count sequence	

The direction of the sequence of numbering of the terminals of a component when viewed from the top.

CW = clockwise ACW = anti-clockwise

REMARKS:

The terminal positions should normally be numbered progressively in an anti-clockwise direction as viewed from the top. The terminal number 1 is then the first terminal position anti-clockwise from the index mark.(Ref : BS 3934-1 : 1992)

AAG073-001	02	A 1	A56
	simple	non-quantitative code	;

surface-mount flag SMD flag

A flag to indicate whether the package is intended for surface-mount applications.

Y = yes N = no

AAG074-001	01	M 10	A31
	simple	string	

date of creation of record creation date

The date on which the record containing the dimension set was first created in the current format.

REMARKS:

The date format shall be yyyy/mm/dd.

AAG075-001	01	M35	A41
	simple	string	

identification of creator creator ID

The identy of the person or organisation who was first responsible for creating the record for the dimension set in the current form.

AAG076-001	01	NR3	Т03	
	level	miNoMax	real	measure
		m		

terminal width	b_p
lead width	bp

The width (in m) as specified by level (miNoMax) of the metallized area of the terminal pad on a surfacemount package.

NOTE

This dimension applies to that part of the terminal which is or may be used for connection to the circuit in which it is mounted.

AAG077-001	01 NR33.3ES2		Т03	
terminal leng lead length	level r	niNoMax m	real mea	asure
	jth	L_p Լր		

The length (in m) as specified by level (miNoMax) of the metallized area of the terminal pad on a surfacemount package.

NOTE

This dimension applies to that part of the terminal which is or may be used for connection to the circuit in which it is mounted.

AAG078-001	01 NR3.	.3.3ES2 T0	3
	level miNoMax	real measure	
	III		
lid height	A_3 A3		

The height (in m) as specified by level (miNoMax) of a lid on the top of a package which encloses a cavity below.

DAE001-001 Package length, width and height

AAG079-001	01	NR33	3.3ES2	Т03
	level mil	NoMax	real mea	asure
		m		
other index l	ength	k_1 k₁		

The length (in m) as specified by level (miNoMax) of a second index feature.

NOTE

This represents the length of a feature which, when taken with other index features on the package, allows for identification of package orientation.

AAG080-001	01	NR33.3	3ES2	Т03
	level mi	NoMax	real me	easure
		m		

terminal row spacing e_D

lead row spacing e_D

The distance (in m) as specified by level (miNoMax) between lines parallel to the package width and passing through the true centres of terminal positions, measured in a direction parallel to the package length.

NOTE

For surface-mount packages, this measurement refers to the centres of the lands on which the package is mounted.

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AAG081-001	01 NR3.	.3.3ES2 T	03
	level miNoMax	real measure	
	m		
lid length	D_1		

The length (in m) as specified by level (miNoMax) of a lid on the top of a package which encloses a cavity below.

DAE001-001 Package length, width and height

AAG082-001	01 NR33.3ES2		Т03
	level miNoMax	real	measure
	m		
lid width	E _ E₁	1	

The width (in m) as specified by level (miNoMax) of a lid on the top of a package which encloses a cavity below.

DAE001-001 Package length, width and height

AAG083-001	01	NR33.3	ES2	T03
	level miNo	Max	real measu	re
		m		
larger flange	radius	r_1 r ₁		

The larger of the two radii (in m) as specified by level (miNoMax) of a flange having an oval shape.

DAE042-001 Oval flange-mount package dimensions

AAG084-001 01 level miNo	NR33.3ES2 T03 Max real measure m	AAG088-001	01 level miNo	NR33.3 Max m	ES2 T03 real measure
smaller flange radius	r_2 r ₂	terminal row	splay	е_В е _В	
The smaller of the two ra level (miNoMax) of a flar	dii (in m) as specified by ige having an oval shape.	The distance between the o of terminals p	(in m) as sp centres of th prior to mou	pecified by ne ends of nting.	v level (miNoMax) two parallel rows
AAG085-001 01 level miNo	NR33.3ES2 T03 Max real measure	REMARKS: For DIP pack with the termi angle, see A>	ages, comp nations spla (D051.	onents are ayed. For	e often supplied limits to the splay
flange overall length	m U_1	DAE012-001	Terminal sp	olay dimen	sions
The overall length (in m) (miNoMax) of the mounti	U ₁ as specified by level ng flange.	AAG089-001	01 level miNo	NR33.3 Max m	ES2 T03 real measure
DAE042-001 Oval flange	-mount package dimensions	package leng	gth	G G	
AAG086-001 01 level miNo	NR33.3ES2 T03 Max real measure m	The overall le (miNoMax) of slugs.	ngth (in m) a package	as specifi excluding	ed by level terminals and
flange overall width	U_2 U ₂	BS3934 issue	91:1975		
The overall width (in m) a (miNoMax) of the mounti	as specified by level ng flange.	AAG090-001	01 level miNo	NR33.3 Max	ES2 T03 real measure
DAE042-001 Oval flange	-mount package dimensions	overall lengt	h	н н	
AAG087-001 01 level miNo	NR33.3ES2 T03 Max real measure m	The overall le (miNoMax) of	ngth (in m) a package	as specifi including	ed by level terminals.
terminal row spacing	e_A e _A	BS3934 issue	91:1975		
The distance (in m) as sp between the centres of ty when mounted.	pecified by level (miNoMax) wo parallel rows of terminals	AAG091-001	01 level miNo	NR33.3 Max m	ES2 T03 real measure
DAE012-001 Terminal sp	lay dimensions	bent termina	l spacing	e e	

The distance (in m) as specified by level (miNoMax) between centres to which the leads of an axial-leaded package may be bent.

AAG092-001	01	NR3	3.3ES2	Т03
	level	miNoMax	real mea	asure
		m		

package height zone G_A G_A

The overall height (in m) as specified by level (miNoMax) of a zone which includes the package height, package irregularities and the uncontrolled part of any terminals presented in the height direction.

DAE092-002 Cylindrical stud-mount package dimensions

AAG093-002 01 NR3..3.3ES2 T03 level miNoMax real measure m

stud thread diameter	%fM
	ØМ

The diameter (in m) as specified by level (miNoMax) of a threaded stud used for mounting the package.

DAE092-002 Cylindrical stud-mount package dimensions

AAG094-002	01	NR33	3.3ES2	Т03
	level m	iNoMax	real mea	sure
		m		

terminal thread diameter %fm Øm

The diameter (in m) as specified by level (miNoMax) of a threaded terminal.

DAE092-002 Cylindrical stud-mount package dimensions

AAG095-001	01 NR3	3.3ES2	T03
	level miNoMax	real measure	Э
	m		
stud length	Ν		
-	Ν		

The length (in m) as specified by level (miNoMax) of a threaded stud used for mounting the package.

DAE092-002 Cylindrical stud-mount package dimensions

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AAG096-001	01 simple	M17 string	A58
stud thread		stud thre	ad
The designati mounting the	ion of the th package.	read of a s	stud used for
AAG097-001	01 simple	M17 string	A58
terminal thre	ad	term thre	ad
The designat	ion of the th	read of a t	erminal.
AAG098-001	01 level miNo	NR33.3 Max m	ES2 T03 real measure
main termina	al length	Q_1 Q1	
The distance of the end of reference pla	(in m) as sp the longer o ne.	ecified by f two term	level (miNoMax) inal leads from a
REMARKS: Q ₁ is longer t	han Q₂		
AAG099-001	01 level miNo	NR33.3 Max m	ES2 T03 real measure
secondary te	erminal leng	gth Q_ Q ₂	2
The distance of the end of reference pla	(in m) as sp the shorter ne.	ecified by of two term	level (miNoMax) ninal leads from a
REMARKS: Q ₂ is shorter	than Q₁.		
AAG100-001	01 level miNo	NR33.3 Max m	ES2 T03 real measure
main overall	length	G_1 G₁	
The longest of level (miNoM reference pla slugs.	overall lengtl ax) of a pac ne excluding	h (in m) as kage meas g terminals	specified by sured from a but including

REMARKS: G_1 is longer than G_2 .

AAG101-001	01	01 NR33.3ES2		
	level	miNoMax	real mea	asure
		m		

secondary overall length G_2 G2

A shorter overall length (in m) as specified by level (miNoMax) of a package measured from a reference plane excluding terminals but including slugs.

REMARKS:

 G_2 is shorter than G_1 .

AAG102-001	01 NR3	3.3ES2	T03
	level miNoMax	real meas	sure
slug diamete	r \$fM		

ØM

The diameter (in m) as specified by level (miNoMax) of a slug.

AAG103-001	01 NR3.	3.3ES2	T03
	level miNoMax	real measure	Э
	m		
slug width	M_1		
	M ₁		

The width (in m) as specified by level (miNoMax) of a slug.

AAG104-001	01	M20	A58
	simple	string	

drawing sequence code drawing ID drawing suffix

A suffix to the drawing code which serves to identify a particular dimension set related to the drawing.

REMARKS:

The suffix is a serial numeric, separated from the drawing reference by a solidus : thus BCY-W01/24

AAG105-001	01	1 NR33.3ES2		
	level miNo	Max	real mea	asure
		m		

bent terminal spacing Q

The distance (in m) as specified by level (miNoMax) between the centres of terminal leads of an axialleaded package after the leads have been bent at right angles.

Q

NOTE

It is assumed that the leads are bent symmetrically and equidistant from the ends of the body of the package.

AAG107-001	01	M175	A58
	simple	string	

terminal pattern terminal pat

The pattern of terminals on a grid array.

NOTE

The terminal pattern is expressed as a sequence of 1s and 0s to represent the presence or absence respectively of terminals on a regular rectangular array.

AAG108-001	01	NR3.	.3.3ES2	Т03
	level	l miNoMax real		measure
		m		

terminal reference position S_1

The distance (in m) as specified by level (miNoMax) from a reference line to the centre of a terminal position.

DAE042-001 Oval flange-mount package dimensions

AAG109-001	01	NR14	Q56
	level Nom	integer measure	

quantity of terminal positions

n_D n_D

The quantity of terminal positions in a row in a direction parallel to the length.

AAG110-001	01	NR14	Q56
	level Nom	integer measure	

quantity of terminal positions n_E

The quantity of terminal positions in a row in a direction parallel to the width.

AAG111-001	01 NR3	3.3ES2	Т03
	level miNoMax	real mea	sure
	m		

I

1

terminal length

The length (in m) as specified by level (miNoMax) of a terminal measured away from the body in the direction of the body length.

NOTE

The symbol I is generally used for the length of terminals which are not rigid.

AAG112-001	01 NR33.3ES2			то:	
	level miNoMax real m		real mea	asure	
		m			

The distance (in m) as specified by level (miNoMax) from a reference line to the centre of a terminal position measured in a direction parallel to the package length.

AAG113-001	01	NR33.3I	ES2	Т03
	level miNoN	lax	real	measure
		m		

terminal reference position S_D S_D

The distance (in m) as specified by level (miNoMax) from a reference line to the centre of a terminal position measured in a direction parallel to the package width.

AAG114-001	01 NR3	33.3ES2	T03
	level miNoMax	real measur	е
	m		
flange width	E_1 E₁		

The dimension (in m) as specified by level (miNoMax) of a flange measured in the direction of the package width.

AAG115-001	01	NR3.	.3.3ES2	Т03
	level m	niNoMax	real mea	asure
		m		

index terminal length L_1

The length (in m) as specified by level (miNoMax) of a terminal which is longer than other terminals and is intended as an index reference

REMARKS:

An index terminal normally indicates terminal 1

AAG116-001	01	NR33.3	ES2	Т03
	level miNoM	lax	real	measure
		m		

package diameter	\$fD_2
	$ØD_2^-$

The diameter (in m) as specified by level (miNoMax) of a package, excluding terminals, measured in a plane parallel to the seating plane.

BS3934 issue 1 : 1975

REMARKS:

 $ØD_2$ is usually smaller than $ØD_1$.

AAG117-001	01 NR33	3.3ES2	Т03
	level miNoMax	real meas	sure
	111		
tag hole widt	h t		

t

The smallest dimension (in m) as specified by level (miNoMax) of a non-circular hole in a terminal tag or slug.

BS3934 issue 1 : 1975

AAG118-001	01	NR33	3.3ES2	Т03
	level miN	loMax	real mea	sure
		m		
tag hole dian	neter	\$ft Øt		

The diameter (in m) as specified by level (miNoMax) of the hole in a terminal lug or slug

BS3934 issue 1 : 1975

tag hole diameter

AAG119-001	01	NR3.	.3.3ES2	Т03
	level miNoN	/lax	real	measure
		m		

\$ft_1

Øt₁

The diameter (in m) as specified by level (miNoMax) of the hole in a terminal lug or slug.

REMARKS: $Øt_1$ is normally larger than $Øt_2$.

DAE119-001 Dimensions of packages with tags

AAG120-001	01 NF	833.3ES2	Т03
	level miNoMax	c real	measure
	m		

tag hole diameter

\$ft_2 Øt₂

The diameter (in m) as specified by level (miNoMax) of the hole in a terminal lug or slug.

REMARKS:

DAE119-001 Dimensions of packages with tags

AAG121-001	01	NR33	.3ES2	Т03
	level r	miNoMax m	real mea	sure
tag holo dist		0		
lag note uist	ance	0		

0

tag hole distance

The distance (in m) as specified by level (miNoMax) between the seating plane and the centre of a hole in the tag of a terminal.

BS3934 issue 1 : 1975

AAG122-001	01	NR3.	.3.3ES2	Т03
	level	miNoMax	real me	easure
		m		
tag hole dist	ance	O_1 O1		

The distance (in m) as specified by level (miNoMax) between the seating plane and the centre of a hole in the tag of a terminal.

DAE119-001 Dimensions of packages with tags

AAG123-001	01 N	R33.3ES2	Т03
	level miNoMa	ax real	measure
	rr	า	

tag hole distance O_2 O₂

The distance (in m) as specified by level (miNoMax) between the seating plane and the centre of a hole in the tag of a terminal.

DAE119-001 Dimensions of packages with tags

AAG124-001	01 NR3.	.3.3ES2	T03
	level miNoMax	real measu	re
	m		
height zone	Q		
	Q		

The height (in m) as specified by level (miNoMax) of a zone within which a flexible lead may be bent to emerge parallel to the seating plane.

DAE119-001 Dimensions of packages with tags

AAG125-001	01	NR33	.3ES2	Т03
	level miNoMax		real m	neasure
		m		

overall height H_A H_A

The largest overall dimension (in m) as specified by level (miNoMax) in the direction of the package height which includes the package height and any terminals which are presented for mounting in the height direction.

AAG129-001	01 I	NR33.3E	Т03	
	level miNoM	ax r	eal	measure
	r	n		

terminal length I lead length I

The length (in m) as specified by level (miNoMax) of a terminal available for mounting measured from the seating plane.

NOTE The symbol I is generally used for the length of terminals which are not rigid and not in fixed positions.

BS3934 issue 1 : 1975

A57

AAG130-001 01 NR23.3 level miNoMax real measur	T01 re	AAJ003-001	01 simple	M8 non-quantitative co	A57 ode
aeg		single resist	or type	resistor	
index angle \$b β		Code of the t	ype of singl	e linear resistor.	
The angle (in degrees) as specified by level (miNoMax) of a chamfer used as an index featu	ıre.	CHIP = FUS = I P =	fixed chip r fixed fusing	esistor resistor ower resistor	
BS3934 issue 1 : 1975		PREC = PWR = THERM =	fixed precis fixed power fixed therm	ion resistor resistor ostat resistor	
AAG131-001 01 NR23.3 level miNoMax real measur	T03 re				
deg		AAJ004-001	01 simple	M8 non-quantitative co	A57 ode
across-flats dimension H		NTC thermis	tor type	NTC thermistor	
The distance (in m) as specified by level (miNo	Max)	Code of the a	application t	ype of a NTC therm	istor.
feature.		CURR =	current con	trol NTC thermistor	
AAG133-001 01 NR33.3ES2 level max real measure	Т03	AAJ006-002	01 simple	M8 non-quantitative co	A57 ode
non-threaded stud length N 1		adjustability	type	adjust type	
Non-timeaded stud length N ₁		Code of the t means by wh	ype of poter ich its value	ntiometer according is adjusted.	to the
The maximum length (in m) as specified by leve the non-threaded portion of a stud used for more the package.	el of unting	LPROT = PRECROT = PRESET -	low-power i rotary preci	rotary potentiometer sion potentiometer	
DAE092-002 Cylindrical stud-mount package dimensions		PWRROT = SLIDE =	power rotar slide potent	y potentiometer liometer	
AAJ001-001 01 M8 simple non-quantitative code	A57	AAJ007-001	01 simple	A 1 non-quantitative co	A56 ode
electrolytic capacitor type electrolytic		built-in fuse		built-in fuse	
Code of the type of electrolytic capacitor.		An indication	(Y or N) as	to whether a solid t t-in fuse.	antalum
NAL = non-solid aluminium electrolytic NTAN = non-solid tantalum electrolytic SAL = solid aluminium electrolytic STAN = solid tantalum electrolytic		N = no bi Y =	uilt-in fuse with built-in	fuse	
AAJ002-001 01 M8	A57	AAJ008-001	01 simple	M8 string	A58
variable canacitor type variable	-	size code		size code	
Code of the type of variable capacitor.		The size code surface mour	e of a capac nting.	itor package intend	ed for
PRESET = pre-set capacitor TRIM = trimmer capacitor TUNE = tuning capacitor		NOTE The code is f by the nomina 0,1mm.	ormed from al width bot	the nominal length h expressed in units	followed of

AAJ009-001	01	M35	A55
	simple	string	

structure structure

Structure of a resistor intended for high-power applications

AAJ010-001	01 level max	NR33.3ES2 real measure V	E06
rated voltage	9	V_r ∨r	

The maximum dc or ac rms voltage (in V) calculated from the square root of the product of the rated resistance and the rated dissipation which may be applied continuously to a resistor at any operating temperature below the rated temperature.

NOTE

At high values of resistance, above the critical resistance value, the rated voltage may not be applicable because of the size and the construction of the resistor.

IEC60115-1, JIS C 5201-1

AAJ011-001	01 level min	NR33.3ES2 real measure W	E35
fusing powe	r	P_fuse	

P_{fuse}

The minimum power (in W) that make will ensure that a fusing resistor blows in the specified period of time.

AAJ049-001 = fusing time

EIAJ RC-2124

AAJ012-002 01 M..8 A57 simple non-quantitative code

fuse type fuse type

Code of the type of a fuse.

CUR	= current-activated fuses
THERM	= thermally-activated fuses

AAJ013-001	01	NR2 S3.3	E33
	level nom	real measure	
		%	

tolerance of TC of resistance TC_tol TCR tolerance TC_{tol}

The nominal tolerance on temperature coefficient of resistance (in %) for a resistor used for temperature sensing.

IEC60115-1, JIS C 5201-1

AAJ014-001	01	NR33.3ES2	Т03
	level nom	real measure	
		m	

potentiometer size D

The nominal value of the major dimension (in m) of the body of a rotary potentiometer measured in a direction perpendicular to the operating shaft.

AAJ015-001	01	NR3.	.3.3ES2	K12
	level minM	ax	real n	neasure
		N.m		
rotation torq	ue	T_rot	t	
		l rot		

The value as specified by level (minMax) of the torque (in N.m) required to operate the shaft of a rotary potentiometer.

AAJ016-001	01	M8	A56
	simple	non-quantitative cod	е

application type application

Code of the application class of a resistor or potentiometer.

REMARKS:

A precision resistor is one with stable characteristics and, if a potentiometer, is capable of precise setting. A component capable of dissipating powers up to 1 W is generally regarded as being a low-power type, whilst one capable of dissipating powers of over 5 W is a high-power type. Between these values, the distinction between types depends on structure.

AAJ017-001	01 simple	M8 non-quantitative code	A58		
adjustment o	direction	adjust dir			
Code for the potentiomete mounted.	direction of r relative to	operation of a preset the surface on which i	t is		
HORIZ = VERT =	horizontal (vertical (top	side adjustment) adjustment)			
AAJ018-001	01 simple	M8 non-quantitative code	A56		
sealing class	S	sealing			
Code for the contact area	sealing prov from the env	vided to protect the slic vironment.	ler		
DUSTP = OPEN = SEAL =	dust-proof s open – no s fully sealed	seal sealing			
AAJ019-001	01 level nom	NR33.3ES2 real measure m	T03		
slide length stroke length		l_sl			
The nominal contact actua	The nominal distance of travel (in m) of the moving contact actuator of a slider potentiometer.				
AAJ020-001	01 level minM	NR33.3ES2 ax real measur N	K09 Te		
slide force		F_sl F _{sl}			
The value as specified by level (minMax) of the force (in N) required to operate the adjuster of a slider potentiometer.					
AAJ021-001	01	NR33.3ES2	K09		

		JLJZ	NU.	
level m	ninMax N	real mea	sure	
rce	F_st F₅t			
	level m	rce F_st	rce F_st F _{st}	

The value as specified by level (minMax) of the force (in N) required to over-ride the end stops of a slider potentiometer.

AAJ022-001	01 simple	M8 A57 non-quantitative code		
PCB connect	tor type	PCB connector		
Code of the ty PC boards.	pe of conne	ector intended for use with		
BTB = Board BTC = board EDGE = card FPC = FPC/ JUMP = PCB	d-to-board J-to-cable edge conne FFC jumper	ctors		
AAJ023-001	01 simple	M8 A57 non-quantitative code		
contact type		contact		
Code of the ty	/pe of conne	ector contact.		
CRIMP = ID = SCREW = SOLDER =	crimped con insulation di screwed cor soldered col	tact splacement contact ntact ntact		
AAJ024-001	01 simple	M8 A57 non-quantitative code		
plug/jack typ	е	plug/jack		
Code of the ty	/pe of plug o	or jack.		
ASSY = CMPLX = CONC = PIN = PWR =	plug assemb complex jac concentric p pin plug or j plug or jack	bly k board lug or jack ack for dc power		
AAJ025-001	01 simple	M8 A57 non-quantitative code		
concentric p	lug/jack typ	e concentric		
Code of the ty	pe of conce	entric plug or jack.		
JACK = concentric jack MULT = concentric multiple jack PLUG = concentric plug				
AAJ026-001	01 simple	M8 A57 non-quantitative code		
pin plug/jack	type	pin		
Code of the ty	/pe of pin pl	ug or jack.		
JACK = pin jack MULT = pin multiple jack PLUG = pin plug SHLD = shielded pin jack				

AAJ027-00	1 01 simple	M8 non-quantitat	A57 ive code	AAJ031-001	01 simple	M8 non-quantitative coo	A57 de
dc power plug/jack type dc power				terminal type	9	terminal	
Code of the type of plug or jack intended for use in dc power applications.			d for use in	Code of the t	ype of termi	nal.	
CAR = ca JACK = dc PLUG = dc	r plug power jack power plug			ARRY = termi BRD = termi ROD = termi SM = smal	inal array inal board inal rod I terminal		
AAJ028-00	1 01 simple	M8 non-quantitat	A57 ive code	AAJ032-001	01 simple	M8 non-quantitative coo	A57 Je
socket typ	e	socket		small termin	al type	small terminal	
Code of the	e type of sock	et.		Code of the t	ype of small	l terminal.	
ANT FUSE IC	= socket for a = fuse-holder = socket for i	antenna feeder ⁻ or socket ntegrated circu	it	GND = earth LS = spea	i terminal ker terminal	I	
PCB PWR SIG	= socket for l = power sock	PCB et		AAJ033-001	01 simple	M8 non-quantitative coo	A57 de
TRA	= transistor s	ocket		terminal arra	iy type	terminal array	
XTAL	= socket for	quartz crystal		Code of the ty	ype of termi	nal array.	
AAJ029-00	1 01 simple	M8 non-quantitat	A57 ive code	BLOCK = HARM =	block-type a harmonica-	array type array	
tube sock	et type	tube socket		AAJ034-001	01	NR33.3ES2	F01
Code of the vacuum tub	e type of sock bes.	et intended for	use with			S	
CRT = so OTH	cket for CRT = socket for t	ube other than	CRT	fuse pre-arci	ing time	t_fus t _{fus} t _{arc}	
AAJ030-00	1 01 simple	M8 non-quantitat	A57 ive code	The minimum the fusing cur arcing begins	i time (in s) rrent is exce	from the instant at wl eeded to the instant a	nich t which
power soc	ket type	power socke	t	AAE014-005	= ambient to	emperature	
Code of the application	e type of sock s.	et intended for	use in power	JIS C 6575			
IN OUT XOVER	= power inlet = power outle = power char	socket et socket ngeover socket					

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AAJ035-001	01 level minMa	NR33.3ES2 ax real me W/K	E35 asure	AAJ039-001	01 level nom	NR33.3ES2 real measure m	Т03
dissipation f	actor	Р_Т Р _Т		contact pitch	1	e e	
The value as power (in W) thermistor in	specified by required to a a state of ec	r level (minMax) of raise the temperat juilibrium by 1K.	the ure of a	The nominal of contacts in a rectangular and	distance (in row of a cor rray	m) between adjacer nnector with contact	nt s in a
NOTE The dissipation power dissipation resulting tem	on factor is o ated (in W) in perature rise	calculated by divid the thermistor by (in K).	ing the the	AAJ040-001	01 level minMa	NR33.3ES2 ax real meas m	T03 sure
JIS C 2570				circuit board card thicknes	l thickness s	t t	
AAJ036-001	01 simple	M8 non-quantitative o	A55 code	The value as thickness of t	specified by he circuit bo	v level (minMax) of t pard to which a conn	he lector
active eleme	nt	active element		may be attact	leu		
Code for the fuse.	active eleme	ent in a thermally-a	activated	AAJ041-001	01 level nom	NR2 S3.3 real measure dB	E06
ELEM = therr PELL = therr	nal element nal pellet			voltage stand	ding wave r	ratio VSWR VSWR	
AAJ037-001	01 simple	M8 non-quantitative o	A55 code	The nominal (in dB) of a ra	value of the adio-frequen	voltage standing wa cy connector or mic	ave ratio rowave
termination	style	termination					
Code for the the contact o	method of co f a connecto	onnecting a condu r.	ctor to	AAJ042-001	01 level max	NR33.3ES2 real measure V	E06
A = screw C = crimp ID = insul M = surfa P = press	w o ation displac ice mount s-in	cement		connector ra	ted voltage	V_r Vr Ur	
S = solde T = tab W = wrap	er			The maximum any two conta shell or casing	n voltage (in acts or betwe g of a conne	V) that may exist b een any contact and ector.	etween I the
AAJ038-001	01 simple	M8 non-quantitative of	A55 code	AAJ043-001	01 level max	NR33.3ES2 real measure ₄	E01
coupling sty connecting st	le yle	coupling		connector ra	ted current	n Lin	
Code for the connector are	method by w e coupled or	/hich two parts of a locked together.	а	The maximum	n total currer	'' nt (in A) that may be	e carried
BAY =	havonet			by a connecto	Dr		

BAY = bayonet PUSH = push-pull SCREW = screw

AAJ044-001	01 level miNo	NR33.3ES2 Max real measu	T03 re	A
		_		fil
connector di	lameter	D		С
The value as overall diame near-circular	specified by eter of a con cross-sectio	y level (miNoMax) of the nector with a circular to nector with a circular to n.	he or	A Bl C/ C/
AAJ045-001	01 simple	M8 non-quantitative code	A56 e	DI FI
direction of	insertion	insertion dir		LE
Code for the	direction of	insertion of a jack.		M
HORIZ = VERT = plane)	horizontal (vertical (pe	parallel to mounting p rpendicular to mountin	lane) Ig	S(S) T) W
AAJ046-001	01 simple	M35 string	A58	A
package typ e IC package	e	package		_
The type of p integrated cir	ackage con cuits for wh	taining one or more ich a socket is intende	ed.	fu
				bl
AAJ047-001	01 simple	M8 non-quantitative code	A58 e	рс
switch type		switch type		ΕI

Code of the type of switch included with a power socket.

DPDT = double pole, double throw DPST = double pole, single throw NONE = no switch SPDT = single pole, double throw SPST = single pole, single throw

AAJ048-001	01	M8	A57
	simple	non-quantitative code	e

fibre optic component fibre optic

Code of the type of fibre optic component.

ATT	= fibre optic attenuator
BRA	= fibre optic branch
САВ	= fibre optic cable
CONN	= fibre optic connector
COUP	= fibre optic coupler/splicer
DET	= fibre optic detetctor
FIL	= fibre optic filter
ISOL	= fibre optic isolator
LENS	= fibre optic lens
LINK	= fibre optic link
MOD	= fibre optic modulator
NETW	= fibre optic network
SOURC	= fibre optic light source
SWI	= fibre optic switch
TXRX	= fibre optic transmitter/receiver
WG	= optical waveguider

AAJ049-001	01 simple	NR33.3ES2 real measure s	Т07
fusing time		@t_fuse @t _{fuse}	

The time (in s) within which a fusing resistor should blow when a power not less than the specified fusing power is dissipated in it.

EIAJ RC-2124

AAJ051-001	01	M17	A55
	simple	string	

electrolyte type electrolyte

The physical form of the electrolyte in an electrolytic capacitor.

AAJ052-001	01	M17	A55
	simple	string	

anode type anode type

The porosity type of the anode in an electrolytic capacitor.

AAJ053-001	01 N	R33.3ES2	E06
	level minMax V	real	measure

category voltage

V_c Vc Uc

The value as specified by level (minMax) of the category voltage range (in V) for a capacitor.

NOTE

The category voltage represents the range of permissible operating voltages at all temperatures within the category temperature range.

AAJ054-001	01 N	R33.3ES2	E06
	level minMax V	real	measure

surge voltage	V_surge
	V _{surge}
	U_{surge}

The value as specified by level (minMax) of the surge voltage range (in V) for a capacitor.

AAJ055-001	01	NR33.3	3ES2	H02
	level ı	minMax	real me	asure
		Cel		
rated temper	ature	T_r		
		Tr		

The value as specified by level (minMax) of the rated temperature range (in Cel) for a capacitor.

AAJ056-001	01	NR3	3.3ES2	H02
	level minMa	ax	real n	neasure
		Cel		

category temperature T_c

The value as specified by level (minMax) of the category temperature range (in Cel) for a component.

NOTE

The category temperature range is that range of ambient temperatures over which the component may be operated continuously. AAJ057-001 01 NR3 S..3.3ES2 E09 level miNoMax real measure %

capacitance change with temperature \$DC/C $$\Delta C/C$$

The value as specified by level (miNoMax) of the variation of capacitance (in %) with temperature over a specified temperature range (T_1 to T_2).

AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

AAJ058-001	01	NR33	3.3ES2	E44
	level m	niNoMax	real mea	asure
		Ω		

z Z

impedance of a capacitor

The value as specified by level (miNoMax) of the modulus of the impedance (in ohms) of a capacitor at a specified frequency.

AAE029-005 = frequency

AAJ059-001	01	M8	A57
	simple	non-quantitative code	Э

filter type filter type

Code of the type of filter.

AAJ060-	001	01 level non	NR23.3	E06
XTL	= c	uartz-cry	vstal filter	
TRAP	= t	rap		
SAW	= s	surface-a	coustic-wave	filter
PIEZO	= p	oiezo-eleo	ctric ceramic	filter
MECH	= r	nechanic	al filter	
LCR	= L	CR filter		
DIEL	= c	lielectric	filter	
ACT	= a	active filte	er	

	level nom	real measure V
rated voltage		V_r V _r U _r

The value of the nominal voltage (in V) applied across the terminals of a PTC thermistor at which the device is intended to operate.

AAJ061-001	01 level max	NR23.3 real measure V	E06	AAJ066-001	01 level nom	NR23.3 real meas deg	ure	T01
maximum op	erating vol	tage V_max V _{max}		angular travo	el	\$a_tr \$alpha; _{tr}		
The value of appled across	the maximu s the termina	m voltage (in V) that r als of a PTC thermiste	may be or.	The nominal adjacent posi	angular dista itions of a sv	ance (in de witch with r	g) between otary opera	tion
AAJ062-001	01 level max	NR33.3ES2 real measure A	E01	AAJ067-001	01 level miNo	NR23.3 Max 1	real measu	A59 e
maximum cu	irrent	l_max		operating lif	e	n_cyc n _{cyc}		
The value of passed throug	the maximu gh a PTC th	m current (in A) that n ermistor at its rated v	nay be oltage.	The minimum switch is desi	number of igned to und	operating c lergo during	ycles for w g its life.	hich a
AAJ063-001	01	NR33.3ES2	E49	AAJ068-001	01 simple	M35 string		A58
level nom	W		shaft style		shaft styl	е		
power consu	Imption	P_I P ₁		The style of t rotary action.	he operating	g shaft of a	switch with	
The value of dissipated in temperature a	the maximu a PTC therr and with rate	m power that may be nistor at ambient ed voltage applied.		AAJ069-001	01 level miNo	NR33.3E	: S2 real measu	T03 e
AAE014-005	= ambient te	emperature		shaft length		L_shaft		
AAJ064-001	01 level nom	NR14 integer measure 1	Q56	The value as length (in m) action measu	specified by of the shaft red from the	/ level (miN of a switch	loMax) of th having rota	ne ary
number of p	oles	n_p n _p		mounting sur	face.	p		
The number of that are contr	of electricall olled by a s	y separate conductive witch.	e paths	AAJ070-001	01 level miNo	NR33.3E Max m	: S2 real measu	T03 Te
AAJ065-001	01 level nom	NR33.3ES2 real measure m	Т03	shaft diamet	er	d_shaft d _{shaft}		
travel		e_tr e _{tr}		The value as diameter (in r action.	specified by n) of the sha	/ level (miN aft of a swit	loMax) of th tch having r	ne rotary

The nominal distance (in m) between adjacent positions of a switch with rectilinear operation.

AAJ071-001	01	M70	A55
	simple	string	

additional features add features

Description of features that are incorporated in a switch in addition to the switching action

REMARKS:

Additional features may include such items as indicator lamps, locking mechanisms, earthing terminal etc.

AAJ072-001	01	M70	A55
	simple	string	

sealing sealing

Description of the method of sealing of a switch.

AAJ073-001	01	NR23.3	F02
	level nom	real measure	
		S	

thermal time-constant (power)\$t_P _{TP}

The nominal time (in s) for the temperature of a thermistor element to change by 63,2 % of the difference between its initial and final temperatures following an abrupt change in the power dissipated at constant ambient temperature.

AAJ074-001	01	M8	A57
	simple	non-quantitative code	Э

image pickup device type image pickup ty

Code of the type of an image pickup device.

CCDA = CCD area array sensor CCDL = CCD linear array sensor MOS = MOS sensor

AAJ075-001	01	M8	A57
	simple	non-quantitative code	е

signal transformer type signal transfor

Code of the type of a signal transformer.

HYB = hybrid

- LF = low-frequency
- PUL = pulse
- RF = radio frequency
- ROT = rotary
- WB = wide-band

AAJ076-001 01 NR2..3.3 E22 level nom real measure %

inductance tolerance (%) Ltol% Ltol%

The nominal tolerance (in %) of the value of inductance of an inductor.

REMARKS: Used only in cases of equal positive and negative tolerance values.

AAJ077-001	01	NR23.3	E22
	level nom	real measure	
		%	

inductance tolerance L_tol

The nominal tolerance (in H) of the value of inductance of an inductor.

REMARKS: Used only in cases of equal positive and negative tolerance values.

AAJ078-001	01	M8	A57
	simple	non-quantitative code	Э

variable inductor type variable induct

Code of the type of a variable inductor.

ANT = antenna inductor

LF = low-frequency

- RF = radio frequency
- AAJ079-001 01 NR3..3.3ES2 E22 level miNoMax real measure

minimum inductance L_min

The value as specified by level (miNoMax) of the minimum value of the range of values of inductance (in H) of a variable inductor at specified frequency.

AAE029-005 = frequency
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AAJ080-001	01 level miNol	NR33.3 Max H	E S2 real measu	E22 Ire	AAJ084-001	01 level max	NR33.3ES2 real measure F	E09
maximum ind	ductance	L_max L _{max}			capacitance		C_gap C _{gap}	
The value as maximum valu (in H) of a val	specified by ue of the rar riable induct	r level (mi nge of val cor at spe	NoMax) of t ues of induc cified freque	he ctance ency.	The maximum between the e frequency and	n value of th electrodes o d temperatu	ne capacitance (in F) of a spark gap at spec ire.	ified
AAE029-005	= frequency				AAE029-005 AAE685-005	= frequency = temperatu	/ Jre	
AAJ081-001	01 simple	M8 non-quai	ntitative cod	A57 e	AAJ085-001	01 level max	NR23.3 real measure	E06
spark gap ty	ре	spark ga	ap type				V	
Code of the ty	ype of spark	gap.			withstanding	j voltage	V_with V _{with}	
AIR = air sp GAS = gas-f	bark gap Filled spark o	ар					U _{with}	
AAJ082-001	01 level nom	NR23.3 real mea	sure	E06	The maximum applied acros gap without c	n value of th s the electr ausing brea	ne ac voltage that may odes of a gas-filled sp akdown.	y be bark
dc breakdow	vn voltage	V V_BR V _{BR} U _{BR}			AAJ086-001	01 level max	NR23.3 real measure A	E01
The nominal v discharge occ	value of the curs betwee	voltage (i n the elec	in V) at whic trodes of a	:h a spark	surge curren	it	I_surge I _{surge}	
gap as the vo	ltage is grad	dually inc	reased.		The maximum	ו value of th d through a	ne pulse current (in A) gas-filled spark gap.	which
NOTE The dc break voltage increa	down voltag ase betweer	e is meas 100 V/s	sured with a and 500 V/s	rate of	REMARKS: Test measure of 8 µs to 20	ements are i µs.	made with pulse wave	forms
AAJ083-001	01 level nom	NR23.3 real mea V	sure	E06	AAJ087-001	01 level min	NR33.3ES2 real measure	E33
breakdown v	oltage tole	rance V_ V _{BR(tol)} U _{BR(tol)}	_BR(tol)		insulation re	sistance	R_ins R _{ins}	
The nominal v breakdown vo	value of the oltage of a s	tolerance park gap.	in V) of the	e dc	The minimum terminal or se the case or e	resistance everal termin nclosure of	(in ohms) between or nals connected togeth a component at speci	ne ier and ified
REMARKS:				1	voltage.		,	-

Used only in cases of equal positive and negative tolerance values.

AAJ088-001	01 simple	M8 non-quantitative code	A57	AAJ093-001	01 level min	NR33.3ES2 real measure	Т07
resonator t	уре	resonator type		h		5 • OK	
Code of the	type of resor	ator.		burst-mode (cycle time	t_СК t _{ск}	
CAV = DIEL = LCR = MECH =	= cavity resor = dielectric re = LC/CR reso = mechanical = magnetostri	ator sonator nator resonator ctive resonator		The minimum between succ DRAM operat	time interv cessive read ing in burst	val (in s) that must ela d/write operations for t mode.	ipse a
PIEZO = SAW = XTL =	= piezo-electr = surface-aco = quartz-cryst	ic ceramic resonator ustic-wave resonator al resonator		AAJ094-001	01 level min	NR33.3ES2 real measure s	Т07
				random read	/write cycl	e time t_RC	
AAJ089-001	01 level nom	NR33.3ES2 real measure	F03			t _{RC}	
		Hz		The minimum between succ	time interv	/al (in s) that must ela dom read/write opera	ipse tions
resonant fr	equency	f_0 f ₀		for a DRAM.			
The nominal produces its	frequency (i maximum re	n Hz) at which a reson sponse.	ator	AAJ095-001	01 level max	NR33.3ES2 real measure s	Т07
AAJ090-001	01 level miNo	NR33.3ES2 Max real measur	E46 e	access time	from RAS	t_RAC t _{RAC}	
quality fact Q-factor	or	Q Q (lovel (miNeMex) of th		The maximun application of pulse, other r and the availa	n time inter the RAS R necessary in ability of va	val (in s) between the tow Address Strobe) i nputs being already p lid data signals at an	nput resent, output
quality facto	r of a resona	tor at a specified frequ	iency.				
AAE029-005	5 = frequency			AAJ096-001	01 level max	NR33.3ES2 real measure Hz	Т07
AAJ091-001	01 level max	NR33.3ES2 real measure s	Т07	clock freque	ncy	f_CK f _{cк}	
access time	e from addre	ss t_AA t _{AA}		The maximun signal applied	n time frequ d to a DRAN	iency (in Hz) of the cl M.	ock
The maximu application of inputs being valid data si	m time interv of the address already pres gnals at an o	al (in s) between the s input, other necessar ent, and the availabilit utput of a DRAM.	ry y of				
AAJ092-001	01 level max	NR33.3ES2 real measure s	T07				
access time	e from clock	t_AC t _{AC}					
The maximu application of being alread	m time interv of the clock p ly present, ar	al (in s) between the ulse, other necessary i nd the availability of va	inputs Iid				

data signals at an output of a DRAM.

AAJ098-001	01	NR3 S3.3ES2	Т07
	level min	real measure	
		S	

address	set-up	time	t_	AS
			t₄	s

The minimum time interval (in s) between application of a signal that is maintained at the address input terminal and a subsequent active transition of the corresponding timing pulse of a memory device at specified supply voltage and in a temperature range between specified temperatures (T_1 and T_2).

AAE102-005 = supply voltage AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

REMARKS:

For further information, refer to AAF212.

AAJ099-001	01 level min	NR3 S3.3ES2 real measure s	Т07
address hold	l time	t_AH t _{AH}	

The minimum time interval (in s) during which the address signal must be retained at an input terminal after the subsequent active transition of the corresponding timing signal of a memory device at specified supply voltage and in a temperature range between specified temperatures (T_1 and T_2).

AAE102-005 = supply voltage AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

REMARKS:

For further information, refer to AAF213.

AAJ100-001	01 level min	NR3 S3.3ES2 real measure s	Т07
input set-up	time	t_IS t _{is}	

The minimum time interval (in s) between application of a signal that is maintained at an input terminal and a subsequent active transition of the corresponding timing pulse of a memory device at specified supply voltage and in a temperature range between specified temperatures (T_1 and T_2).

AAE102-005 = supply voltage AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

REMARKS:

For further information, refer to AAF212.

AAJ101-001	01	NR3 S3.3ES2	Т07
	level min	real measure	
		S	

input hold time t_IH t_{וH}

The minimum time interval (in s) during which a signal must be retained at an input terminal after the subsequent active transition of the corresponding timing signal of a memory device at specified supply voltage and in a temperature range between specified temperatures (T_1 and T_2).

AAE102-005 = supply voltage AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

REMARKS:

For further information, refer to AAF213.

AAJ102-001	01 level min	NR3 S3.3ES2 real measure s	Т07
clock set-up	time	t_CKS t _{скs}	

The minimum time interval (in s) between application of the clock signal that is maintained at an input terminal and a subsequent active transition of the corresponding timing pulse of a memory device at specified supply voltage and in a temperature range between specified temperatures (T_1 and T_2).

AAE102-005 = supply voltage AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

REMARKS:

For further information, refer to AAF212.

A57

T03

AAJ103-001	01 level min	NR3 S3.3ES2 real measure	Т07	AAJ106-001	01 simple	M8 non-quantitative coo	A5 de
clock hold ti	me	s t_CKH t _{скн}		dielectric ma dielectric insulator	aterial	dielectric	
The minimum clock signal r after the subs corresponding specified sup between spec AAE102-005 AAE958-005 AAE959-005	time interv nust be reta sequent acti g timing sig ply voltage cified tempe = supply vo = temperatu = temperatu	al (in s) during which t ined at an input termin ve transition of the nal of a memory devic and in a temperature r ratures (T_1 and T_2). Itage ure T_1 ure T_2	the nal e at range	Code for the f CER = cerar CLO = cloth GLA = glass MIC = mica PAP = pape RUB = rubbe WOO = wood	type of a di mic s er er	electric material.	
REMARKS: For further in	formation, r	efer to AAF213.		AAJ107-001	01 simple	M8 non-quantitative coo	A57 Je
AAJ104-001	01 level min	NR3 S3.3ES2 real measure s	Т07	printed wirin printed wiring PW base	i g base ma base	terial PW base	
output hold	time time interv	t_OH t _{OH} al (in s) during which a	a	Code for the f wiring laminat GCN = glass GCP = glass	type of bas te. s cloth, non s cloth, pap	e material used in a p -woven core er core	rinted
signal is retai subsequent a timing signal voltage and ii specified tem	ned at an o octive transif of a memor n a tempera peratures (⁻	utput terminal after the tion of the correspondi y device at specified s ture range between T ₁ and T ₂).	e ing supply	GLF = glass GMP = glass GTE = glass PER = pape PPR = pape SFF = synth	s fabric s mod-and-u s ismal/triaz r base, epo r base, phe netic fibre fa	un polyimide /epox xy resin nolic resin abric	
AAE102-005 AAE958-005 AAE959-005	= supply vo = temperatu = temperatu	ltage ure T_1 ure T_2		AAJ108-001	01 level nom	NR33.3ES2 real measure	Т03
REMARKS: For further in	formation, r	efer to AAF213.		copper thick Cu thickness	ness	t_Cu t _{Cu}	
AAJ105-001	01 level minM	NR33.3ES2 lax real measu s	T07 re	The nominal t on a printed-v	thickness (i wiring lamin	n m) of the copper cla ate.	adding

AAJ109-001	01 level nom	NR12 integer measure	Q56
number of la	yers	n_lay n _{lay}	

The number of layers in a multilayer printed-wiring circuit.

NI	\sim	т	
IN	U		

transition time

The LOW voltage level is specified as VIL and the HIGH level as VIH.

in a temperature range between specified

t_T t⊤

The limits to the value as specified by level (minMax)

of the HIGH-to-LOW or LOW-to-HIGH level transition time (in s) which must be observed at the clock input of a memory device at specified supply voltage and

AAE102-005 = supply voltage AAE958-005 = temperature T_1 AAE959-005 = temperature T_2

temperatures (T_1 and T_2).

AAJ110-001	01 level miNo	NR33. Max	BES2 real measu	T03 re	AAJ116-001	01 simple	M8 non-quantita	A55 ative code
circuit lengt board length	h	D			printed circu printed board PC board type	i it type type	PW type	
The length (ir by level (miN	n m) of a pri oMax).	inted wirir	ng circuit as g	jiven	Code for the	type of print	ted wiring cire	cuit or board.
AAJ111-001 circuit width	01 level miNo	NR33.3 Max	3 ES2 real measu	T03 re	BUP = build CER = cerar DFR = doub MET = meta MFR = multi	-up nic-based le-sided fle: l-based -layer flex-r	x-rigid igid	
The width (in by level (miN	m) of a prir oMax).	E nted wiring	g circuit as gi	ven	MLF = multi MLR = multi SDF = single SDR = single	-layer flexib -layer rigid e- or double e- or double	e-sided flexib e-sided rigid	e
AAJ112-001	01 level min	NR33.3 real mea	BES2 asure	Т03	AAJ117-001	01 simple	M8 non-quantita	A55 ative code
track width		d_w d _w			microwave c	omponent	type micro	owave type
The minimum printed wiring	i width (in m i circuit.	ı) of a cor	nductive track	con a	ATT = atten CIRC = circu	uator lator	owave comp	onent.
AAJ113-001	01 level min	NR33.3 real mea	BES2 asure	Т03	COAX = coax COUP = coup DET = detec DIR = direc	ial guide ler ctor tional coupl	er	
track spacin	g	d_s ds			DIV = divide ISO = isola MIX = mixe	er/combiner tor r		
The minimum conductive tra	i spacing (ir acks on a pi	n m) betwe rinted wiri	een adjacent ng circuit.		PS = phas RES = resor SWI = switc TERM = termi	e shifter nator h nator		
AAJ114-001	01 simple	M35 string		A57	WAV = wave	guide		
connector m connector fin	aterial ish	con fini	sh		AAJ118-001	01 simple	M8 non-quantita	A55 ative code
The material strips forming wiring circuit.	used to coa connectior	it or finish ns at the e	the conducti dge of a prin	ng ted	connection t Code for the t component.	ype type of conr	connect ty nection for a)e microwave
AAJ115-001	01 level nom	NR33.3 real mea	BES2 asure	T03	CONN= conn PIN = pin	ector		
connector pi	itch	e e			SL = strip- SM = surfa WAV = wave	ce-mount guide		
The nominal	distance (in	m) betwe	en the centre	es of				

adjacent conducting strips forming connections at the edge of a printed wiring circuit.

AAJ119-001	01 level miNol	NR1 \$ ⁄/ax dB	S4 integer measu	E49 re	AAJ122-001	01 level minMa	NR33.3ES2 ax real measu Hz	F03 ure
insertion los	S	inser insert	tion loss ion loss		frequency ra frequency bar	nge nd	f_range f _{range}	
The value as insertion loss	specified by (in dB) of a	level micro	(miNoMax) of t wave compone	he nt.	The value as frequencies (i component is	specified by n Hz) over v designed to	v level (minMax) of th which a microwave o operate.	е
AAJ120-001	01 level miNol	NR1 S Max dB	S4 integer measu	E49 re	AAJ123-001	01 simple	M8 non-quantitative coc	A55 le
isolation		isola isolat	t ion ion		potentiomete	er type	POT type	
The value as attenuation (in to that of the component.	specified by n dB) provid normal signa	level ed in a al flow	(miNoMax) of the direction opport of a microwave	he osite e	MULT = multi- SING = single	ype of poter -turn rotary e-turn rotary	ntiometer.	
AAJ121-001	01 level max	NR3. . real n W	3.3ES2 neasure	E35	AAJ124-001	01 level nom	NR23.3 real measure 1	Q56
maximum po maximum pow	wer handli r ver	ıg	P_max P _{max}		number of tu	rns	n_turn N _{turn}	

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The maximum value of the power (in W) which may be handled or transmitted by a microwave component. The nominal value of the number of turns required to cover the full electrical range of a multi-turn rotary potentiometer.

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Annex D

(normative)

Drawings

D.1 Drawing definitions

The following table lists the drawings which are contained within this annex.

DAA001-001 01

ABD-W-T001

Bead package, straight axial wire leads

DXF	DAA001.DXF
JPEG	DAA001.JPG
Windows Meta-File	DAA001.WMF

DAA02-001 01

BBD-W-T001

Bead package, straight bottom wire leads

DXF	DAA002.DXF
JPEG	DAA002.JPG
Windows Meta-File	DAA002.WMF

DAA003-001 01

BBD-W-T002

Bead package, formed bottom wire leads

DXF	DAA003.DXF
JPEG	DAA003.JPG
Windows Meta-File	DAA003.WMF

DAA004-001 01

BCY-W-T003

Cylindrical package, bottom leads on circle

DXF	DAA004.DXF
JPEG	DAA004.JPG
Windows Meta-File	DAA004.WMF

DAA005-001 01

BCY-W-T004

Cylindrical package, straight in-line bottom leads

DXF	DAA005.DXF
JPEG	DAA005.JPG
Windows Meta-File	DAA005.WMF

BCY-W-T005					
Cylindrical leads	package,	formed	in-line	bottom	

01

DXF DAA006.DXF JPEG DAA006.JPG Windows Meta-File DAA006.WMF

DAA07-001 01

BCY-W-T006

DAA06-001

Cylindrical package, bottom leads on square grid

DXF DAA007.DXF JPEG DAA007.JPG Windows Meta-File DAA007.WMF

DAA008-001 01

BCY-W-T007

Cylindrical package, offset in-line bottom leads

DXF	DAA008.DXF
JPEG	DAA008.JPG
Windows Meta-File	DAA008.WMF

DAA009-001 01

ECY-R-T000

Cylindrical package, wrap-around terminals

DXF DAA009.DXF JPEG DAA009.JPG Windows Meta-File DAA009.WMF

DAA010-001 01

RCY-D-T001

Cylindrical package, straight radial tag leads

DXF	DAA010.DXF
JPEG	DAA010.JPG
Windows Meta-File	DAA010.WMF

DAA011-001 01

RCY-W-T001

Cylindrical package, straight radial wire leads

DXF	DAA011.DXF	DXF	DAA017.0
JPEG	DAA011.JPG	JPEG	DAA017.J
Windows Meta-File	DAA011.WMF	Windows Meta-File	DAA017.V

DAA012-001 01

ADB-W-T001

Disc package, straight axial wire leads

DXF	DAA012.DXF
JPEG	DAA012.JPG
Windows Meta-File	DAA012.WMF

DAA013-001 01

BDB-W-T001

Disc package, straight bottom wire leads

DXF	DAA013.DXF
JPEG	DAA013.JPG
Windows Meta-File	DAA013.WMF

DAA014-001 01

BDB-W-T002

Disc package, formed bottom wire leads

DXF	DAA014.DXF
JPEG	DAA014.JPG
Windows Meta-File	DAA014.WMF

DAA015-001 01

BFM-P-T007

Oval flange-mount package, offset bottom pins

DXF	DAA015.DXF
JPEG	DAA015.JPG
Windows Meta-File	DAA015.WMF

DAA016-001 01

BFM-P-T003

Oval flange-mount package, bottom pins on circle

DXF	DAA016.DXF
JPEG	DAA016.JPG
Windows Meta-File	DAA016.WMF

DAA017-001 01

DFM-P-T009

Flange-mount package, dual-in-line pins

DXF JPG WMF

DAA018-001 01

SFM-T-T011

Flange-mount package, single row, straight flat leads

DXF DAA018.DXF DAA018.JPG JPEG Windows Meta-File DAA018.WMF

DAA019-001 01

SFM-T-T023

Flange-mount package, single row, straight Vsection leads

DXF	DAA019.DXF
JPEG	DAA019.JPG
Windows Meta-File	DAA019.WMF

DAA020-001 01

DFP-F-T001

Dual flat pack, straight flat leads

DXF	DAA020.DXF
JPEG	DAA020.JPG
Windows Meta-File	DAA020.WMF

DAA021-001 01

BGA-B-T012

Ball-grid array package, bottom terminals

DXF DAA021.DXF JPEG DAA021.JPG DAA021.WMF Windows Meta-File

DAA022-001 01

DIP-P-T009

Dual-in-line package, round pins

DXF	DAA022.DXF
JPEG	DAA022.JPG
Windows Meta-File	DAA022.WMF

DIP-P-T010

Dual-in-line package, rectangular pins

DXF	DAA023.DXF
JPEG	DAA023.JPG
Windows Meta-File	DAA023.WMF

DAA024-001 01

DIP-T-T000

Dual-in-line package, standard through-hole leads

DXF	DAA024.DXF
JPEG	DAA024.JPG
Windows Meta-File	DAA024.WMF

DAA025-002 01

UPM-D-T013

Stud-mount package, one fixed tag

DXF	DAA025.DXF	DXF
JPEG	DAA025.JPG	JPEG
Windows Meta-File	DAA025.WMF	Windows Meta-File

DAA026-002 01

UPM-D-T014

Stud-mount package, two fixed tags

DXF	DAA026.DXF	DXF
JPEG	DAA026.JPG	JPEG
Windows Meta-File	DAA026.WMF	Windows

DAA027-002 01

UPM-H-T015

Stud-mount package, one flexible lead with tag

DXF	DAA027.DXF
JPEG	DAA027.JPG
Windows Meta-File	DAA027.WMF

DAA028-002 01

UPM-H-T016

Stud-mount package, two flexible leads with tags

DXF	DAA028.DXF
JPEG	DAA028.JPG
Windows Meta-File	DAA028.WMF

DAA029-002 01

UPM-H-T017

Stud-mount package, three flexible leads with tags

DXF DAA029.DXF JPEG DAA029.JPG Windows Meta-File DAA029.WMF

DAA030-002 01

UPM-H-T018

Stud-mount package, one flexible lead, no tag

DXF	DAA030.DXF
JPEG	DAA030.JPG
Windows Meta-File	DAA030.WMF

DAA031-001 01

ARC-D-T019

Rectangular package, axial strip leads

DXF	DAA031.DXF
JPEG	DAA031.JPG
Windows Meta-File	DAA031.WMF

DAA032-001 01

ARC-W-T007

Rectangular package, offset axial wire leads

DXF	DAA032.DXF
JPEG	DAA032.JPG
Windows Meta-File	DAA032.WMF

DAA033-001 01

BRC-W-T001

Rectangular package, straight bottom wire leads

DXF DAA033.DXF JPEG DAA033.JPG Windows Meta-File DAA033.WMF

DAA034-001 01

BRC-W-T002

Rectangular package, formed bottom wire leads

DXF DAA034.DXF JPEG DAA034.JPG Windows Meta-File DAA034.WMF

DAA035-001 01

ERC-M-T000

Rectangular package, metallised ends

DXF	DAA035.DXF
JPEG	DAA035.JPG
Windows Meta-File	DAA035.WMF

DAA036-001 01

ERC-R-T000

Rectangular package, wrap-around terminals

DXF	DAA036.DXF
JPEG	DAA036.JPG
Windows Meta-File	DAA036.WMF

DAA037-001 01

DSO-G-T020

Dual small-outline package, multiple gull-wing leads

DXF	DAA037.DXF
JPEG	DAA037.JPG
Windows Meta-File	DAA037.WMF

DAA038-001 01

DSO-G-T021

Small-outline package, three gull-wing leads

DXF	DAA038.DXF
JPEG	DAA038.JPG
Windows Meta-File	DAA038.WMF

DAA039-001 01

SSO-G-T022

Small-outline package, two gull-wing leads, stub and tab

DXF	DAA039.DXF
JPEG	DAA039.JPG
Windows Meta-File	DAA039.WMF

DAA040-001 01

QCC-J-T000-B002

Quad chip carrier, J-bend leads, non-bumped package

DXF	DAA040.DXF
JPEG	DAA040.JPG
Windows Meta-File	DAA040.WMF

DAA041-001 01

QCC-N-T000-B009

Quad chip carrier, leadless non-cavity package (moulded)

DXF DAA041.DXF JPEG DAA041.JPG Windows Meta-File DAA041.WMF

DAA042-001 01

QCC-N-T000-B010

Quad chip carrier, leadless cavity package (ceramic)

DXF DAA042.DXF JPEG DAA042.JPG Windows Meta-File DAA042.WMF

DAA043-001 01

ACY-W-T001-B003

Cylindrical package, straight axial wire leads

DXF DAA043.DXF JPEG DAA043.JPG Windows Meta-File DAA043.WMF

DAA044-001 01

ACY-W-T001-B004

Top-hat package, straight axial wire leads

DXF	DAA044.DXF
JPEG	DAA044.JPG
Windows Meta-File	DAA044.WMF

DAA045-001 01

UCY-D-T000-B005

Cylindrical package, top tag terminals, clamp mount

DXF	DAA045.DXF
JPEG	DAA045.JPG
Windows Meta-File	DAA045.WMF

DAA046-002 01

UCY-D-T000-B006

DAA047-001

mount

UCY-Y-T000-B005

Cylindrical package, top tag terminals, stud mount

Cylindrical package, top screw terminals, clamp

DXF DAA046.DXF JPEG DAA046.JPG Windows Meta-File DAA046.WMF

01

s, stud

DXF JPEG Windows Meta-File

DAA050-001

PGA-P-T009-B007

DAA050.DXF DAA050.JPG DAA050.WMF

DAA051-001 01

PGA-P-T009-B008

Pin-grid array package, cavity down

01

Pin-grid array package, cavity up

		DXF	DAA051.DXF
DXF	DAA047.DXF	JPEG	DAA051.JPG
JPEG	DAA047.JPG	Windows Meta-File	DAA051.WMF
Windows Meta-File	DAA047.WMF		

DAA048-002 01

UCY-Y-T000-B006

Cylindrical package, top screw terminals, stud mount

DXF	DAA048.DXF
JPEG	DAA048.JPG
Windows Meta-File	DAA048.WMF

DAA049-001 01

QFP-G-T000-B002

Quad flat pack, gull-wing leads, non-bumped package DXF DAA049.DXF JPEG DAA049.JPG Windows Meta-File DAA049.WMF

D.2 Drawings


















































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Annex E

(normative)

Figures

E.1 **Figure definitions**

DAE001-001 01

DAE012-001 01

Package length, width and height

DXF DAE001.E	DXF	DAE012.DXF
JPEG DAE001.J	JPEG	DAE012.JPG
Windows Meta-File DAE001.V	= Windows Meta-File	DAE012.WMF

DAE002-001 01

Die dimensions

DXF	DAE002.DXF
JPEG	DAE002.JPG
Windows Meta-File	DAE002.WMF

DAE003-001 01

Bumped die dimensions

DXF	DAE003.DXF
JPEG	DAE003.JPG
Windows Meta-File	DAE003.WMF

DAE004-001 01

Cylindrical package dimensions

DVE		DXF	DA
		JPEG	DA
JPEG	DAE004.JPG	Windows Meta-File	DA
Windows Meta-File	DAE004.WMF		DA

DAE005-001 01

In-line package dimensions

DXF	DAE005.DXF
JPEG	DAE005.JPG
Windows Meta-File	DAE005.WMF

DAE009-001 01

Lead lengths and diameters

DXF	DAE009.DXF
JPEG	DAE009.JPG
Windows Meta-File	DAE009.WMF

Terminal splay dimensions

DAE021-001 01

Package overall widths

DXF DAE021.DXF JPEG DAE021.JPG Windows Meta-File DAE021.WMF

DAE040-001 01

Terminal emergence height

DAE040.DXF DXF JPEG DAE040.JPG Windows Meta-File DAE040.WMF

DAE042-001 01

Oval flange-mount package dimensions

DXF	DAE042.DXF
JPEG	DAE042.JPG
Windows Meta-File	DAE042.WMF

DAE092-001 01

Cylindrical stud-mount package dimensions

DXF DAE092.DXF JPEG DAE092.JPG Windows Meta-File DAE092.WMF

DAE119-001 01

Dimensions of packages with tags

DXF	DAE119.DXF
JPEG	DAE119.JPG
Windows Meta-File	DAE119.WMF

E.2 Figures













Annex F Index on keywords from the preferred name of Data element types and Condition data element types

keyword	full preferred name	identifier
2nd-order	2nd-order beat	AAE700-005
2-tau	spurious signal level (2-tau)	AAE888-005
3-state	3-state output leakage	AAE239-005
	current	
3-state	3-state output leakage	AAE240-005
	current	
3-tau	spurious signal level (3-tau)	AAE879-005
absolute	absolute value of admittance	AAF459-001
absolute	absolute value of impedance	AAF456-001
absorbing	energy absorbing capacity	AAE430-005
aboorbing	max	
accelerator	final accelerator voltage	AAE590-005
access	access time	AAE720-005
access	access time from address	AA 1091-001
200055	access time from CAS	AAE721 005
	access time from clock	AAL002 001
		AAE720 005
		AAL005 001
access		AAJ095-001
accessory	accessory name	AAF309-005
accessory	accessory type	AAF465-001
across-flats	across-flats dimension	AAG131-001
activated	activated display area current	AAE845-005
active	active element	AAJ036-001
actual	actual quantity of termination	AAG059-001
actual	actual terminal number	AAG059-001
actuating	actuating force	AAE932-005
actuating	actuating quantity	AAE926-005
actuation	switch actuation	AAE931-006
actuator	actuator type	AAE142-005
actuator	moving contact actuator type	AAE142-005
AD	AD function	AAE788-005
additional	additional features	AAJ071-001
additional	additional g-supply current	AAE897-005
additional	additional guiescent current	AAE897-005
address	access time from address	AAJ091-001
address	address bus width	AAF226-005
address	address hold time	AA.1099-001
address	address set-up time	AA.1098-001
address	address to output delay	AAE720-005
addressable	addressable storage size	AAE228-005
addressing	addressing mode	AAE326-005
aduressing	adjustability class	AAF070-005
adjustability	adjustability typo	AAE003 006
adjustability	adjustability type	AAE151 005
adjustability	adjustability type	AAI 1016 002
adjustability	adjustability type	AA5000-002
adjuster	adjuster placement	AAF371-001
adjustment	adjustment direction	AAJ017-001
admittance	absolute value of admittance	AAF459-001
admittance	modulus of admittance	AAF459-001
admittance	transfer admittance	AAE396-005
air	(air) gap length	AAE778-005
air	ambient temperature	AAE014-005
air	stress ambient free air	AAF278-002
	temperature	
ambient	ambient temperature	AAE891-005
ambient	ambient temperature	AAE014-005
ambient	stress ambient free air	AAF278-002
	temperature	
ambient	stress ambient temperature	AAF278-002
amplified	amplified quantity	AAF169-005
amplifier	amplifier package	AAE969-005
amplitude	amplitude permeability	AAE773-005
analogue	analogue function	AAE084-005
angle	angle axis to x-axis	AAF411-001
910		

keyword	full preferred name	identifier
angle	angle axis to y-axis	AAF412-001
angle	angle axis to z-axis	AAF413-001
angle	angle of mechanical rotation	AAE173-005
angle	deflection angle	AAE588-005
angle	half-value beam angle	AAE558-005
angle	index angle	AAG130-001
angle	index datum angle	AAG047-001
angle	index datum angle	AAG048-001
angle	phase angle	AAF454-001
angle	phase angle	AAF455-001
angle	semi angle	AAF416-001
angle	step angle	AAE208-005
angle	tangent of loss angle	AAE065-005
angle	terminal seating angle	AAG052-001
angle	terminal-to-contact angle	AAE352-005
angle	viewing angle	AAE993-005
angular	angular terminal spacing	AAG049-001
angular	angular terminal spacing	AAG050-001
angular	angular terminal spread	AAG051-001
angular	angular travel	AAJ066-001
anode	anode current average	AAF203-005
anode	anode current peak	AAF204-005
anode	anode type	AAJ052-001
anode	anode voltage	AAE590-005
anode	anode voltage limiting	AAF315-005
anode	anode-gate to anode current	AAE749-005
anode	anode-gate to anode voltage	AAE751-005
anode	controllable anode current	AAE745-005
anode-gate	anode-gate to anode current	AAE749-005
anode-gale	anode-gale to anode voltage	AAE751-005
aperture	aperture	AAE302-005
application	application mode	AAE864-005
application	application type	
application	circuit application (capacitor)	AAE034-005
application	delay line application	AAE542-005
application	diode application	AAE273-007
application	EHT stack application	AAE503-005
application	frequency application	AAE055-005
application	frequency application	AAF119-005
application	frequency application	AAF146-005
application	IC application field	AAE074-005
application	power transformer	AAF098-005
	application	
application	PTC application	AAE618-005
application	rectifier diode application	AAE505-005
application	voltage application	AAE033-005
application	wire application	AAF262-005
approval	quality approval authority	AAE687-005
approval	safety approval	AAE149-005
architecture	instruction set architecture	AAF222-005
area	activated display area current	AAE845-005
area	effective cross-sectional area	AAE782-005
area	gross area	AAF398-001
area	minimum cross-sectional area	AAF283-005
area	net area	AAF397-001
area	viewing area height	AAE855-005
area	viewing area length	AAE854-005
armature	armature material	AAE176-005
arrangement	packing arrangement	AAF265-005
arrangement	pinning arrangement	AAE348-005
array	terminal array type	AAJ033-001
aspect	basic aspect	AAF352-001

keyword	full preferred name	identifier
assemblies	number of contact	AAE921-005
	assemblies	
assembly	maximum assembly	AAD149-001
	temperature	
assurance	quality assurance	AAE687-005
attenuation	attenuation	AAF261-005
attenuation	pass-band attenuation	AAF121-005
attenuation	transducer attenuation	AAE887-005
authority	quality approval authority	AAE687-005
avalanche	non-rep peak rev avalanche	AAE304-005
	energy	
average	anode current average	AAF203-005
average	average blas current	AAF 154-005
average	average forward current	AAE966-005
average		AAE647-005
average	average noise ligure	AAE047-005
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axis	angle axis to v-axis	AAF412-001
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bandwidth	bandwidth	AAE534-005
bandwidth	bandwidth	AAE934-005
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base	mounting base temperature	AAE272-005
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base-emitter	base-emitter voltage	AAE427-005
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hits	number of bits	AAF459-005
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board	printed board thickness	AAE362-005
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body	body diameter	AAF320-001
body	body height	AAE020-005
body	body length	AAE019-005
body	body shape	AAF344-001
body	body variant code	AAG055-001
body	contact body material	AAE355-005
body	maximum body temperature	AAE115-005
bond	number of bond sites	AAD018-001
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breadth	body breadth	AAE021-005
breadth	element breadth	AAE577-005
breadth	flange breadth	AAF318-001
breadth	terminal breadth	AAE338-001
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breakdown	breakdown torque	AAE201-005
broakdown	breakdown voltage	AAE201-005
breakdown	breakdown voltage telerenee	AAF 302-003
breakdown	breakdown voltage tolerance	AAJ083-001
breakdown	collector-emitter breakdown	AAF066-005
	voltage	
breakdown	dc breakdown voltage	AAJ082-001
breakdown	minimum breakdown voltage	AAF251-005
breaking	rated breaking capacity	AAF122-005
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brightness	brightness contrast ratio	AAE848-005
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cablo	number of cable elements	AAE255 005
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сар	dielectric class (ceramic cap)	AAE038-005
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capacitance	collector-base capacitance	AAF116-005
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capacitance	diode capacitance	AAE497-005
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capacitance		AAE 390-005
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capacitance	input capacitance	AAE898-005
capacitance	input capacitance	AAE982-005

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capacitance	output capacitance	AAE983-005
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capacitance	reference capacitance	AAE860-005
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canacitance	short-circuit output	AAE983-005
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capacity	power handling capacity	AAE048-005
capacity	rated breaking capacity	AAF122-005
capacity	storage capacity	AAE474-005
capacity	voltage handling capacity	AAE338-005
card	card thickness	AAJ040-001
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CAS	access time from CAS	AAE721-005
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cathode-gate	cathode-gate to cathode	AAE/48-005
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centre	centre of gravity (x-axis)	AAF362-001
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change	max change rate output	AAF162-005
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change	rate change of forward	AAE275-005
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channel	channel type	AAE366-005
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chopping	chopping frequency	AAE935-005
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circle	terminal circle diameter	AAG004-001
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code	manufacturer package code	AAG009-001
code		AAE522-005
code	package identifier code	AAG060-001
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keyword	full preferred name	identifier
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code	project view code	AAF392-001
code	shape/size code BSI	AAE259-005
code	size code	AAJ008-001
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code	standard package code	AAG070-001
code	supply form code	AAD056-001
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code	temperature coefficient code	AAE035-005
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collector	collector current peak value	AAE407-005
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collector-base	collector-base voltage	AAE419-005
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collector-emitter	collector-emitter breakdown	AAF066-005
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collector-emitter	collector-emitter peak voltage	AAE415-005
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collector-emitter	collector emitter voltage	AAE412-005
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colour	package colour	AAE560-005
colour	package colour	AAF128-005
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compon mode		AAF120-005
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common-mode	common-mode input voltage	AAF157-005
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commutating	rate of rise commutating voltage	AAE/41-005
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complementary	complementary type	AAE968-005
complex	complex numbers	AAF441-001
component	category EE component	
component	category EM component	
component		
component		AAE034-005
component	component status	AAE905-005
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component	fibre optic component	AAJ048-001
component	integrated component	AAE177-005
component	integrated component	AAF124-005
component	main class of component	AAE001-005
composite	composite triple beat	AAE699-005
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conductance	conductance	AAF460-001
conductance	transfer conductance	AAF656-005
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conductor	conductor finish	AAF240-005
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configuration		AAE242 005
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configuration	diode configuration	AAE488-005
configuration	input configuration	AAF191-005
configuration	winding configuration	AAE151-005
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conformity	conformity of frequency response	AAE706-005
connectina	connecting style	AAJ038-001
connection	coil connection	AAE175-005
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connection	connection requirement	
connection		
connection		
connection		AADUU7-001
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connector	connector diameter	AAJ044-001
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constant	mochanical time constant	AAE107 005
constant		AAE 107-005
constant	thermal time constant	AAE131-005

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constant	time constant	AAE746-005
constant	time constant (of capacitor)	AAE066-005
construction	dielectric construction	AAF257-005
construction	display construction	AAE849-005
construction	layout construction	AAE849-005
consumption	current consumption	AAE697-005
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consumption	power consumption	AAJ063-001
consumption	specific current consumption	AAE045-005
contact		AAE919-005
contact	contact current (ac)	AAE515-005
contact	contact current (dc)	AAE106-005
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contact	contact power (dc)	AAF130-005
contact	contact resistance	AAE920-005
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contact	contact spring material	AAF125-005
contact	contact type	AAJ023-001
contact	contact voltage (ac)	AAE512-005
contact	contact voltage (dc)	AAF107-005
contact	imiting contact voltage	AAE513-005
contact	number of contact actuator type	AAE 142-005
contact		AAE921-005
contact-circuit	contact-circuit resistance	AAE920-005
contacts	number of contacts	AAE359-005
contacts	number of contacts per row	AAF150-005
contacts	sex of contacts	AAE353-005
continuous	continuous direct reverse	AAE276-005
	current	
continuous	continuous overload	AAE168-005
continuous	leakage current continuous	AAE043-005
contrast	brightness contrast ratio	AAE848-005
contrast	contrast ratio	AAE848-005
contrast	luminance contrast ratio	AAE848-005
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core	core factor C 1	AAE777-005
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count	pad geometry count	AAD116-001
count	terminal count	AAD145-001
count	termination count sequence	AAG072-001
coupling	coupling method	AAF192-005
coupling	coupling style	AAJ038-001
creation	date of creation of record	AAG074-001
creator	identification of creator	AAG075-001
creepage	creepage distance	AAE159-005
crest	crest working input voltage	AAE292-005
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cross section		AAE/03-005
cross-section	terminal cross section change	AAF241-005
01033-38011011	terminal cross-section snape	
cross-sectional	effective cross-sectional area	AAF782-005
cross-sectional	minimum cross-sectional	AAF283-005
	area	
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keyword	full preferred name	identifier
crystal	LED crystal material	AAE563-005
CSI	CSI functions	AAE790-005
Curie	Curie point	AAE761-005
Curie	Curie temperature	AAE761-005
current	3-state output leakage current	AAE239-005
current	3-state output leakage current	AAE240-005
current	activated display area current	AAE845-005
current	additional q-supply current	AAE897-005
current	additional quiescent current	AAE897-005
current	anode current average	AAF203-005
current	anode current peak	AAF204-005
current	anode-gate to anode current	AAE149-005
current	average forward current	AAF966-005
current	average on-state current	AAE744-005
current	average output current	AAE286-005
current	base current (dc)	AAE409-005
current	cathode-gate to cathode	AAE748-005
current	collector current (dc)	AAE406-005
current	collector current (dc) max	AAE405-005
current	collector current light	AAF138-005
current	collector current light	AAF140-005
current	collector current peak value	AAE407-005
current	collector current ratio	AAE640-005
current	collector cut-off current dark	AAF139-005
current	collector cut-off current I_CB	AAF109-005
current	collector cut-off current I_CE	AAF115-005
current	connector rated current	AAE041-005
current	contact current (ac)	AAE515-005
current	contact current (dc)	AAF106-005
current	contact current max	AAE358-005
current	continuous direct reverse current	AAE276-005
current	controllable anode current	AAE745-005
current	current (ac)	AAE933-005
current	current (dc)	AAE945-005
current	current (pulse)	AAE125-005
current	current consumption	AAE697-005
current	current per phase	AAF 103-005
current	current rms	AAE540-005
current	current transfer ratio	AAE548-005
current	cut-off current dark I CBO	AAF142-005
current	cut-off current dark I_CEO	AAF141-005
current	data retention current	AAF332-005
current	dc current gain	AAE402-005
current	dc current gain sat	AAE952-005
current	dc input diode current	AAE217-005
current	de supply surrent	AAE218-005
current	differential current change	AAE642-005
current	drain current (dc)	AAE368-005
current	drain current (dc)	AAE370-005
current	drain current (dc)	AAE367-005
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current	dynamic output current	AAF207-005
current	emitter current (dc)	AAE408-005
current	emitter cut-off current I_EBO	AAF110-005
current	energising current (ac)	AAE912-005
current	field deflection current	AAE911-005
current	forward current	AAE012-000
current	forward current limit	AAE546-005
current	gate current	AAE731-005
current	gate cut-off current	AAE372-005
current	gate trigger current	AAE732-005
current	heater current	AAE580-005

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current	HIGH off-state output current	AAE239-005
current	HIGH-level input current	AAE899-005
current	HIGH-level output current	AAE255-005
current	HIGH-state input current	AAE899-005
current	HIGH-state output current	AAE255-005
current	HIGH-state supply current	AAE901-005
current	holding current	AAE136 005
current	input biog ourrent	AAF150-005
current		AAF 154-005
current	input clamping current	AAE217-005
current	input current	AAE895-005
current	Input current limit	AAE217-005
current	input leakage current	AAE223-005
current	input offset current	AAF152-005
current	latching current	AAF137-005
current	leakage current continuous	AAE043-005
current	leakage current short-term	AAE042-005
current	line deflection current	AAE611-005
current	LOW off-state output current	AAE240-005
current	LOW-level input current	AAE900-005
current	LOW-level output current	AAE254-005
current	I OW-state input current	AAE900-005
current	I OW-state output current	AAE254-005
current	LOW-state supply current	AAE902-005
ourront		AAL902-003
current		AAJU62-001
current	maximum output current	AAE168-005
current	nominal current	AAE521-005
current	nominal output current	AAE160-005
current	non-rep peak input current limit	AAE285-005
current	non-rep peak on-state	AAE730-005
	current	
current	non-rep peak reverse current	AAE315-005
current	non-rep varistor peak current	AAE298-005
current	non-repetitive peak forward	AAE294-005
	current	
current	non-repetitive peak reverse	AAE318-005
	current	
current	non-repetitive surge current	AAE298-005
current	non-repetitive transient	AAE298-005
	current	
current	non-trip current	AAE137-005
current	off-state current	AAE239-005
current	off-state current	AAE240-005
current	off-state current	AAF135-005
current	off-state supply current	AAE903-005
current	on-state current	AAE733-005
current	output clamping current	AAE218-005
current	output current	AAE867-005
current	output current	AAE226-005
current	output current FHT supply	AAF282-005
current	output current focus supply	AAF283-005
current	output current limit	AAE218-005
current	output chart aircuit aurrent	AAE207 005
current	output short-circuit current	AAF207-005
current	output sink current	AAE254-005
current	output source current	AAE255-005
current	pad current	AAD033-001
current	pad supply current	AAD033-001
current	peak inrush current limit	AAE284-005
current	peak working current	AAE317-005
current	programming current	AAF237-005
current	PTC peak current	AAE620-005
current	PTC peak inrush current	AAE619-005
current	PTC residual current	AAE629-005
current	quiescent current	AAE896-005
current	quiescent supply current	AAE896-005
current	rate change of forward	AAE275 005
Guirent	current	AALZ10-000
current	rate of rise of commut current	AAE735-005
current	rate of rise of gate current	AAE736-005
current	rate of rise of on-state curr	AAF684-005
current	rate of rise on-state ourront	ΔΔΕ734 005
ourrent	rate of the off-state current	NAL134-005

keyword	full preferred name	identifier
current	rated current	AAE525-005
current	rated input current	AAE197-005
current	rated operational current (dc)	AAF106-005
current	repetitive peak forward	AAE293-005
	current	
current	repetitive peak on-state	AAE729-005
	current	
current	repetitive peak output current	AAE287-005
current	repetitive peak recovery	AAE297-005
	current	
current	repetitive peak reverse	AAE297-005
	current	
current	reverse current	AAE276-005
current	reverse current	AAE994-005
current	reverse current dark	AAF144-005
current	reverse current light	AAF143-005
current	reverse gate current	AAE372-005
current	ripple current	AAE960-005
current	rms on-state current	AAE728-005
current	rms on-state current	AAF063-005
current	small-signal current gain	AAE410-005
current	source cut-off current	AAE373-005
current	specific current consumption	AAE845-005
current	standby current	AAF336-005
current	standby current chip disabled	ΔΔE336-005
ourrent	standby current disabled	AAF 330-005
current	standby current anabled	AAE092-005
current	standby current enabled	AAE093-005
current	supply current	AAD054-001
current	supply current	AAE691-005
current	supply current	AAE901-005
current	supply current	AAE902-005
current	supply current	AAE903-005
current	supply current type	AAE178-005
current	surge current	AAJ086-001
current	surge on-state current	AAE730-005
current	temp coef input offset current	AAF153-005
current	thermistor current	AAE625-005
current	trip current	AAE136-005
current	voltage at class current (IEC)	AAE319-005
current	working current	AAE316-005
current	working current	AAE500-005
current	working peak forward current	AAE296-005
current-noise	current-noise index	AAE621-005
curvature	screen curvature radius	AAE804-005
curve	curve radius	AAG043-001
cut-off	cathode voltage for cut-off	AAE591-005
cut-off	cathode voltage for cut-off	AAE603-005
cut-off	collector cut-off current dark	AAF139-005
cut-off	collector cut-off current I CB	AAF109-005
cut-off	collector cut-off current I CE	AAF115-005
cut-off	cut-off current dark I CBO	AAF142-005
cut-off	cut-off current dark I CEO	AAF141-005
cut-off	cut-off frequency	AAE426-005
cut-off	drain cut-off current	AAE371-005
cut-off	emitter cut-off current L EBO	AAE110-005
cut-off	gate cut-off current	AAE372-005
cut-off	gate-source cut-off voltage	AAE386-005
cut-off	grid 1 voltage for cut-off	AAE578-005
cut-off	grid 2 voltage for cut-off	AAE584-005
cut-off	source cut-off current	ΔΔE373 005
cycle	burst-mode cycle time	
cycle		AAEQ14 005
ovolo		AAE344-003
oyole	machine cycle	AAF223-005
cycle	random read/write cycle time	AAJU94-001
cycles	number of charge cycles	AAE944-005
cylinaer	cylinder neight	AAF410-001
cylinder	cylinder radius	AAF409-001
aark	collector cut-off current dark	AAF139-005
aark	cut-off current dark I_CBO	AAF142-005
dark	cut-off current dark I_CEO	AAF141-005
dark	dark resistance	AAE123-005

keyword	full preferred name	identifier
dark	reverse current dark	AAF144-005
data	data bus width	AAF227-005
data	data retention current	AAF332-005
data	data retention voltage	AAF333-005
data	die data source	AAD142-001
data-valid	output data-valid time	AAF232-005
date	date of creation of record	AAG074-001
datum	index datum angle	AAG047-001
datum	impedance decrease	AAG048-001
defect	defect rate	AAE750-005
deflection	deflection angle	AAE588-005
deflection	field deflection current	AAE612-005
deflection	line deflection current	AAE611-005
delav	address to output delay	AAE720-005
delav	delay (off) time	AAE981-005
delay	delay (off) time	AAF055-005
delay	delay (on) time	AAE980-005
delay	delay (on) time	AAF056-005
delay	delay line application	AAE542-005
delay	delay line type	AAE878-005
delay	delay time	AAE231-005
delay	delay time	AAE543-005
delay	delay time	AAF056-005
delay	HIGH to LOW delay time	AAE233-005
delay	LOW to HIGH delay time	AAE237-005
delay	phase delay drift	AAE886-005
delay	phase delay time	AAE544-005
delay	propagation delay	AAE231-005
delivery	delte L CC per input	AAD 155-001
density	density	AAE286-005
density	flux density at (BH) max	AAF200-005
density	magnetic flux density	AAF769-005
density	peak flux density	AAE768-005
density	remanent flux density	AAF292-005
density	saturation flux density	AAF308-005
density	total loss volume density	AAF300-005
dependency	resistance dependency	AAE122-005
depth	comb depth	AAF120-005
depth	index depth	AAG026-001
derating	dissipation derating factor	AAE905-005
description	component description	AAE834-005
description	die description	AAD010-001
description	die type description	AAD086-001
description	supply form description	AAD088-001
description	supply packing description	AAD090-001
deviation	mounting deviation v/v	AAD060-001
deviation	mounting deviation y/z	AAF403-001
deviation	normal standard deviation	AAF366-001
device	category of diode device	AAE305-005
device	image pickup device type	AAJ074-001
device	locking device	AAF051-005
device	optoelectronic device	AAE545-006
	function	
device	trigger device function	AAE724-005
diagonal	screen diagonal	AAE592-005
diameter	body diameter	AAF320-001
diameter	centre pole diameter	AAE051-005
diameter	conductor diameter	AAF246-005
diameter	connector diameter	AAJ044-001
diameter	core diameter	AAE051-005
diameter	nange diameter	AAF 342-001
diameter	Inside diameter	AAE/53-005
diamotor		AAG009-001
diameter		AAG010-001
diameter	mounting hole diameter	AAG011-001
diameter	neck diameter	AAF580_001
ulameter	neek ulametei	LTC203-002

keyword	full preferred name	identifier
diameter	outside diameter	AAE022-005
diameter	overall diameter	AAG025-001
diameter	package diameter	AAG014-001
diameter	package diameter	AAG062-001
diameter	package diameter	AAG116-001
diameter diameter	package diameter zone	AAGU22-001
diameter	pau diameter	AAD121-001
diameter	shaft diameter	AA 1070-001
diameter	slug diameter	AAG102-001
diameter	spindle diameter	AAE148-005
diameter	stand-off diameter	AAG007-001
diameter	stud thread diameter	AAG093-002
diameter	tag hole diameter	AAG118-001
diameter	tag hole diameter	AAG119-001
diameter	tag hole diameter	AAG120-001
diameter	terminal circle diameter	AAG004-001
diameter	terminal diameter	AAE023-005
diameter	terminal diameter	AAG009-001
diameter	terminal diameter	AAG010-001
diameter	terminal diameter	AAG011-001
diameter	terminal thread diameter	AAG094-002
die	die centre x-position	AAD129-001
die	die centre y-position	AAD130-001
die	die data source	AAD142-001
die	die identifier	AAD010-001
die	die longth	AAD001-001
die	die manufacturer	AAD140-001
die		AAD140-001
die	dio nicturo	AAD127 001
die	die sten dimension x	AAD070-001
die	die step dimension v	AAD070-001
die	die supplier	AAD141-001
die	die surface	AAD081-001
die	die test level code	AAD008-001
die	die thickness	AAD072-001
die	die type	AAD085-001
die	die type code	AAD004-001
die	die type description	AAD086-001
die	die version	AAD003-001
die	die width	AAD071-001
die	die yield	AAD009-001
die	die yield code	AAD095-001
dielectric	(capacitor) dielectric	AAE004-007
dielectric	dielectric class (ceramic cap)	AAE038-005
dielectric	dielectric construction	AAF257-005
dielectric	dielectric material type	AAE004-007
dielectric	dielectric strength	AAF251-005
dielectric	dielectric sub-class 1	AAE266-005
aielectric	alelectric sub-class 2	AAE076-005
dielectric	film dielectric material	AAE039-005
difference	difference base-emitter voltage	AAE418-005
difference	difference in penetration factor	AAE716-005
difference	difference in transfer impedance	AAE717-005
difference	gate-source voltage difference	AAE383-005
differential	differential current change	AAE642-005
differential	differential input resistance	AAF163-005
differential	differential resistance	AAE323-005
differential	differential resistance	AAE328-005
differential	differential travel	AAE869-005
differential	differential voltage change	AAE644-005
digit	digit height	AAE984-005
digit	digit length	AAF145-005
digital	digital function	AAE085-005
dimension	across-flats dimension	AAG131-001
dimension	die step dimension x	AAD070-001

keyword	full preferred name	identifier
dimension	die step dimension y	AAD071-001
dimension	stand-off major dimension	AAG005-001
dimension	stand-off minor dimension	AAG006-001
dimension	terminal emergence	AAG041-001
	dimension	
diodo	category of diada davica	AAE305 005
diada	de input diede ourrent	AAF 303-005
diode		AAE217-005
aiode	ac output diode current	AAE218-005
diode	diode application	AAE273-007
diode	diode capacitance	AAE496-005
diode	diode capacitance	AAE497-005
diode	diode configuration	AAE488-005
diode	diode envelope	AAE331-005
diode	diode forward resistance	AAE310-005
diode	diode function	AAE312-005
diode	diode lower capacitance	AAE304-005
diode	diode nackage	AAE331-005
diada	diode package	AAE311-005
		AAE311-005
diode	diode series resistance	AAE310-005
diode	diode series resistance	AAE311-005
diode	diode technology	AAE489-005
diode	diode upper capacitance	AAF303-005
diode	rectifier diode application	AAE505-005
direct	continuous direct reverse	AAE276-005
	current	
direction	adjustment direction	AAJ017-001
direction	direction of insertion	AA.1045-001
direction	direction of rotation	AAE188 005
direction	input/output direction	AAD022 001
	input/output direction	AAD022-001
direction	preferred viewing direction	AAE991-005
direction	signal direction	AAD022-001
disable	output disable time	AAF215-005
disabled	standby current chip disabled	AAF336-005
disabled	standby current disabled	AAE692-005
disaccommodation	disaccommodation factor	AAF299-005
display	activated display area current	AAE845-005
display	display construction	AAE849-005
display	display format	AAE273-005
diee	non-ren neak reverse nower	AAE303-006
0135	dise	
diaa	non ron nock rovered nower	AAE227 006
uiss	diag	AAE327-000
alta a		445000.004
aiss	non-rep peak reverse power	AAF 389-001
	aiss	
dissipation	dissipation derating factor	AAE905-005
dissipation	dissipation factor	AAE065-005
dissipation	dissipation factor	AAE130-005
dissipation	dissipation factor	AAJ035-001
dissipation	power dissipation	AAE257-005
dissipation	power dissipation per output	AAE214-005
dissipation/output	dc power dissipation/output	AAE214-005
distance	creenage distance	AAE159-005
distance	hystoresis in switching	AAE860 005
uistance	distanco	AAE009-005
distance	spark distance	AAE158-005
distance	tag hole distance	AAG121-001
distance	tag hole distance	AAG122-001
distance	tag hole distance	AAG123-001
distance	tie-point distance	AAE937-005
distance	travel in switching distance	AAE869-005
distortion	intermod distortion d 3	AAE710-005
distortion	intermod distortion d im	AAE709-005
distortion	intermodulation distortion	AAE712-005
	d 3	
distortion	n_o	
uistortion		AAE/11-005
	u_im	A A EOG 4 OG 1
aistribution	probability distribution	AAF364-001
document	source document	AAG067-001
	identification	
document	source document page	AAG068-001
document	standards document	AAG071-001

keyword	full preferred name	identifier
	reference	
dot	dot height	AAE853-005
dot	dot length	AAE852-005
dot	dot spacing	AAE986-005
drain	drain current (dc)	AAE368-005
drain	drain current (dc)	AAE370 005
drain	drain current (dc)	AAE367 005
drain	drain current (dc)	AAE367-005
drain	drain cut-off current	AAE371-005
drain-gate	drain-gate voltage	AAE375-005
drain-source	drain-source off-state	AAE394-005
	resistance	
drain-source	drain-source on-state	AAE391-005
	resistance	
drain-source	drain-source on-state	AAE393-005
	resistance	
drain-source	drain-source voltage	AAE376-005
drain-source	drain-source voltage limit	AAE377-005
drain-source		AAE377-005
drain-substrate	drain-substrate voltage	AAE378-005
drain-substrate	drain-substrate voltage limit	AAE379-005
drawing	drawing reference code	AAG066-001
drawing	drawing sequence code	AAG104-001
drawing	drawing suffix	AAG104-001
drift	phase delay drift	AAE886-005
drift	thermal drift gate-source	AAE380-005
unit	voltage	, WIL 003-000
	voltage	445044 005
drive	drive frequency	AAE844-005
drive	drive unit type	AAE005-006
drive	drive voltage	AAE992-005
drive	driving method	AAF264-005
drive	operating voltage	AAE842-005
driving	driving feature	AAE014 005
driving	driving reature	AAF 014-005
ariving	ariving method	AAE839-005
driving	driving method	AAF264-005
driving	driving mode	AAE839-005
driving	driving voltage	AAE184-005
drop	voltage drop	AAF123-005
duration	duration	AAE028-005
duration	pulse duration HIGH	AAE216-005
duration	pulse duration LOW	AAE217 005
		AAF217-005
auring	voltage during charge	AAE941-005
dynamic	dynamic output current	AAF207-005
E	E series	AAE030-005
earth	clearance to earth	AAE158-005
edge	major edge	AAF426-001
edae	minor edge	AAF427-001
edge-length	edge-length	AAF129-001
	edge-length	AAE002 006
		AAEU02-000
effective	effective cross-sectional area	AAE782-005
effective	effective frequency f_e1	AAE341-005
effective	effective frequency f_e2	AAE340-005
effective	effective magnetic path	AAE776-005
	length	
effective	effective permeability	AAE771-005
efficiency	efficiency	AAE715-005
спісісноў	EHT stock application	AAEF02 005
		AAE303-003
EHI	output current EHT supply	AAE282-005
EHT	output voltage EHT supply	AAE289-005
EIA	EIA temperature	AAE037-005
	characteristic	
EIA	size code EIA	AAF353-001
electrical	electrical reference	AAD021-001
electrochemical	primary electrochemical	AAE531-005
sissasononnoa	evetom	
alaatraahamissi	opondory alastrasharia	
electrochemical	secondary electrochemical	AAE532-005
	system	
electrode	electrode material type	AAE040-005
electrode	electrode technology	AAE031-005
electrolyte	electrolyte type	AAJ051-001
electrolytic	electrolytic capacitor type	AAJ001-001
electromotive	electromotive force	ΔΔE180-005
alamant	active element	
element		AA1020-001

keyword	full preferred name	identifier
element	element breadth	AAE577-005
element	element gap	AAE575-005
element	element length	AAE576-005
element	element separation	AAE575-005
element	LF cable element	AAF253-005
element	limiting element voltage (ac)	AAF201-005
element	resistance element material	AAE116-005
element	RE cable element	AAE256-005
elements	number of cable elements	AAF255-005
elements	number of variable elements	AAE172-005
EM	category EM component	AAE060-005
emergence	terminal emergence	AAG041-001
	dimension	
emergence	terminal emergence height	AAG040-001
emission	wavelength at peak emission	AAE556-005
emitter	emitter current (dc)	AAE408-005
emitter	emitter cut-off current I_EBO	AAF110-005
emitter-base	emitter-base input	AAF117-005
amittan haaa	capacitance	
emiller-base	emiller-base vollage v_EBO	AAF112-005
enabled	standby current enabled	AAF214-005
encansulation	encansulation material	AAD150-001
encapsulation	encapsulation technology	AAE262-005
endurance	endurance	AAE073-005
endurance	mechanical endurance	AAE361-005
energising	energising current (ac)	AAE912-005
energising	energising current (dc)	AAE911-005
energising	energising voltage (ac)	AAE916-005
energising	energising voltage (dc)	AAE915-005
energy	energy absorbing capacity	AAE430-005
	max	
energy	non-rep peak rev avalanche energy	AAE304-005
engaging	engaging force	AAF045-005
entry	bottom entry	AAE345-005
entry	temale entry	AAE345-005
envelope	diode envelope	AAE331-005
envelope	envelope	AAE037-005
envelope	envelope	AAE969-005
envelope	envelope code	AAE838-005
envelope	envelope colour	AAE560-005
envelope	envelope colour	AAF128-005
envelope	peak envelope power	AAE708-005
envelope	peak envelope power PEP	AAE707-005
equivalent	equivalent input noise	AAE380-005
	voltage	
equivalent	equivalent noise irradiation	AAE572-005
equivalent	equivalent noise voltage	AAE380-005
equivalent	equivalent series resistance	AAE064-005
equivalent	noise equivalent power	AAE572-005
equivalent	slope cable equivalent	AAE705-005
exit	SMD	AAF346-001
exit	terminal exit position SMD	AAF345-001
expectation	brush life expectation	AAE171-005
expectation	Poisson expectation value	AAF368-001
extended	extended length	AAE997-005
external	external radius	AAF431-001
face-plate	face-plate radius	AAE804-005
factor	average noise factor	AAE647-005
tactor	core factor C_1	AAE777-005
tactor	difference in penetration factor	AAE716-005
factor	disaccommodation factor	AAF299-005
factor	dissipation derating factor	AAE905-005
factor	dissipation factor	AAE065-005
factor	dissipation factor	AAE130-005
factor	dissipation factor	AAJ035-001

keyword	full preferred name	identifier
factor	inductance factor	AAE770-005
factor	loss factor	AAF298-005
factor	quality factor	AAE518-005
factor	quality factor	AAJ090-001
factor	simultaneity factor	AAF436-001
factor	spot noise factor	AAE648-005
factor	spot noise factor	AAE657-005
factor	temperature factor of	AAF307-005
faatar	permeability	
ractor	reluctivity	AAF307-005
fall	fall time	AAE746-005
fall	fall time	AAE977-005
fall	fall time	AAE057-005
fall	fall time	AAE904-005
fall	output fall time	AAE235-005
feature	driving feature	AAF014-005
features	additional features	AAJ071-001
features	features	AAF440-001
features	mounting features	AAE006-006
feedback	feedback capacitance	AAE390-005
feedback	feedback capacitance	AAE421-005
female	female entry	AAE345-005
FET-technology	FET-technology	AAE973-005
fibre	fibre optic component	AAJ048-001
fiducial	fiducial file name	AAD157-001
fiducial	fiducial height	AAD159-001
fiducial	fiducial name	AAD156-001
fiducial	fiducial orientation	AAD162-001
fiducial	fiducial width	AAD158-001
fiducial	fiducial x position	AAD160-001
fiducial	fiducial y position	AAD161-001
field	field coil inductance	AAE608-005
field	field coil resistance	AAE610-005
field	field deflection current	AAE612-005
field	field strength at (BH)_max	AAF289-005
field	IC application field	AAE074-005
field	magnetic field strength	AAE863-005
field	magnetic field strength	AAF284-005
field	peak magnetic field strength	AAE767-005
field	saturation field strength	AAF290-005
figure	average noise figure	AAE647-005
figure	noise figure	AAE647-005
figure	noise figure	AAE648-005
figure	noise figure	AAE657-005
figure	spot noise ligure	AAE646-005
filo	fiducial filo name	AAE057-005
film	film dielectric material	AAE030 005
filtor	filtor	AAE3/3-005
filter	filter type	AA 1059-000
final	final accelerator voltage	AAE590-005
finish	hackside finish	AAD119-001
finish	conductor finish	AAE240-005
finish	contact finish	AAE350-005
fixed	linearity of a fixed resistor	AAE114-007
flag	surface-mount flag	AAG073-001
flammability	IEC flammability	AAF127-005
flammability	UL flammability	AAF126-005
flange	flange breadth	AAF318-001
flange	flange diameter	AAF342-001
flange	flange height	AAF319-001
flange	flange height	AAG019-001
flange	flange length	AAF317-001
Flange	Flange length	AAG063-001
flange	flange overall length	AAG085-001
flange	flange overall width	AAG086-001
flange	flange thickness	AAG019-001
flange	flange width	AAG114-001
flange	flange zone height	AAG018-001

keyword	full preferred name	identifier
flange	larger flange radius	AAG083-001
flange	shape of flange	AAE061-005
flange	smaller flange radius	AAG084-001
flatness	flatness	AAE706-005
flatness	flatness of frequency	AAE706-005
	response	
flow	test flow	AAD132-001
flux	flux density at (BH) max	AAF293-005
flux	magnetic flux density	AAE769-005
flux	neak flux density	AAE768-005
flux	radiant flux	AAE561-005
flux	radiant flux	AAE065-005
flux	remanent flux density	AAF202 005
flux	coturation flux density	AAE208 005
facus		AAF308-005
focus	feauaing valtage	AAE203-005
focusing		AAE585-005
focusing	focusing voltage	AAE586-005
rocusing	rocusing voltage limiting	AAF314-005
torce	actuating force	AAE932-005
force	contact member force	AAE925-005
force	electromotive force	AAE180-005
force	engaging force	AAF045-005
force	holding force	AAF062-005
force	insertion force	AAF045-005
force	lever stop force	AAJ021-001
force	maximum axial force	AAE200-005
force	maximum radial force	AAE190-005
force	rated force	AAF133-005
force	separating force	AAF046-005
force	slide force	AAJ020-001
force	withdrawal force	AAF046-005
forced	dc current gain sat	AAE952-005
form	lead form code	AAG058-001
form	MPD delivery form	AAD155-001
form	supply form	AAD087-001
form	supply form code	AAD056-001
form	supply form description	AAD088 001
format	diaplay format	AAD000-001
forward	average forward ourrent	AAF273-005
forward	diada forward registered	AAE900-005
forward		AAE310-005
forward	forward current	AAE274-005
forward		AAE346-005
forward	forward voltage	AAE279-005
forward	forward voltage	AAE499-005
forward	non-repetitive peak forward	AAE294-005
forward	rate change of forward	
loiwalu	current	AAL275-005
forward	repetitive peak forward	AAE203.005
lorward	current	
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HIGH-level	HIGH-level output voltage	AAE093-005
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identifier	die identifier	AAD001-001
identifier	manufacturer pad identifier	AAD013-001
identifier	package identifier code	AAG060-001
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input	common-mode input voltage	AAF157-005
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lead	lead form code	AAG058-001
lead	lead length	AAG029-001
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length	lead length	AAG032-001
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iengtn Ian ath	lead length	AAG034-001
length	lead length	AAG077-001
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length	terminal length	AAG029-001
length	terminal length	AAG030-001
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length	viewing area length	AAE854-005
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loss	total loss volume density	AAE300-005
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LOW	LOW off-state output current	AAE240-005
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LOW	LOW to HIGH propagation	AAE237-005
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LOW	LOW to HIGH transition time	AAE238-005
LOW	output voltage LOW	AAE094-005
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lower	capacitance lower tolerance	AAE018-001
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lower	diode lower capacitance	AAF304-005
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lowest	lowest resonance frequency	AAE050-005
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		AAE719-005
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LOW-state	LOW-state output voltage	AAE097-005
LOW-state	LOW-state output voltage ref	AAE094-005
LOW-state	LOW-state supply current	AAE902-005
luminance	luminance contrast ratio	AAE848-005
luminous	luminous intensity	AAE565-005
luminous	luminous intensity class	AAE562-005
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magnet	magnet material	AAE053-005
magnet	magnet material	AAE174-005
magnet	magnet type	AAE174-005
magnetic	effective magnetic path	AAE776-005
	lenath	
magnetic	hard magnetic material grade	AAE762-005
magnetic	magnetic field strength	AAE863-005
magnetic	magnetic field strength	AAF284-005
magnetic	magnetic flux density	AAF769-005
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magnetic	peak nux density	AAE700-005
magnetic	peak magnetic neid strength	AAE767-005
magnetic	sont magnetic material grade	AAE764-005
magnetisation	magnetisation system	AAE174-005
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main	main overall length	AAG100-001
main	main terminal length	AAG098-001
major	major edge	AAF426-001
major	major radius of torus	AAF421-001
major	stand-off major dimension	AAG005-001
manufacturer	die manufacturer	AAD140-001
manufacturer	manufacturer package code	AAG069-001
manufacturer	manufacturer pad identifier	AAD013-001
marking	marking method	AAF269-005
mass	mass	AAE752-005
material	armature material	AAE176-005
material	bulk material	AAD148-001
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keyword	full preferred name	identifier
material	bump material	AAD124-001
material	conductive material	AAF241-005
material	contact body material	AAE355-005
material	contact spring material	AAF125-005
material	dielectric material type	AAE004-007
material	electrode material type	AAE040-005
material	encapsulation material	AAD150-001
material	film dielectric material	AAE039-005
material	hard magnetic material grade	AAE762-005
material	housing material constant	AAE351-006
material	insert material	AAF300-005
material	insulating material	AAF400-001
material	load frame material	AAD125 001
material	I ED crystal material	AAE563-005
material	magnet material	AAE053-005
material	magnet material	AAE174-005
material	material type	AAE311-006
material	passivation material	AAD078-001
material	resistance element material	AAE116-005
material	resistive material	AAE116-005
material	soft magnetic material grade	AAE764-005
material	spindle material	AAE145-005
material	spindle material of	AAE145-005
	potentiometer	
material	substrate material	AAD005-001
material	terminal material	AAE634-005
maturity	test maturity code	AAD154-001
max	BH product max	AAF295-005
max	collector current (dc) max	AAE405-005
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max	energy absorbing capacity	AAE430-005
	max	
max	max change rate output	AAF162-005
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max	max load torque	AAE191-005
max	max peak voltage at I_class	AAE319-005
max	max pull-in	AAE202-005
max	max range value	AAF360-001
max	max working torque	AAE191-005
max	stress temperature max	AAF277-002
maximum	maximum assembly	AAD149-001
movimum		
maximum	maximum axial force	AAE200-005
maximum	maximum capacitance	AAE115-005
maximum	maximum clamping voltage	AAE310-005
maximum	maximum clock frequency	AAE211-005
maximum	maximum current	AAI 211-000
maximum	maximum inductance	AAJ080-001
maximum	maximum noise power	AAE048-005
maximum	maximum noise voltage	AAE338-005
maximum	maximum operating voltage	AA.1061-001
maximum	maximum output current	AAE168-005
maximum	maximum radial force	AAE190-005
maximum	maximum surface	AAE115-005
	temperature	
maximum	maximum work torque	AAE201-005
mechanical	angle of mechanical rotation	AAE173-005
mechanical	mechanical endurance	AAE361-005
mechanical	mechanical life	AAE922-005
mechanical	mechanical time constant	AAE187-005
mechanical	total mechanical rotation	AAE173-005
member	contact member force	AAE925-005
memory	on-chip memory	AAF327-005
memory/register	memory/register function	AAE722-007
metallisation	pad metallisation	AAD120-001
metastable	metastable window	AAF218-005
method	connection method	AAE985-005
method	coupling method	AAF192-005
method	driving method	AAE839-005

keyword	full preferred name	identifier
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method	marking method	AAF269-005
method	modulation method	AAE490-005
method	mounting method	AAF343-001
MII	MIL cable type	AAF252-005
MII	MIL specification	AAF370-001
min	isolation voltage min	AAE550-005
min	min range value	AAE361-001
min	stress temperature min	AAF276-002
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minimum	minimum capacitance	AAF069-005
minimum	minimum cross soctional	AAE283 005
mmmum	area	AAI 203-003
minimum	minimum inductance	AA 1079 001
minimum	test voltage minimum	AAE251-005
minor	minor edge	AAF 231-003
minor	minor radius	AAF427-001
minor	minor radius of torus	AAF432-001
minor	atend off miner dimension	AAF422-001
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missing	quantity of missing terminals	AAG038-001
mode	addressing mode	AAF326-005
mode	application mode	AAE864-005
mode	common mode rejection ratio	AAE3/4-005
mode	ariving mode	AAE839-005
mode	lilumination mode	AAE856-005
mode	lighting mode	AAE856-005
mode	mode of control	AAE464-005
mode	mode of operation	AAE786-005
mode	pressure mode	AAE864-005
model	transformer model	AAE167-005
modulation	cross modulation	AAE703-005
modulation	modulation method	AAE490-005
modulus	modulus of admittance	AAF459-001
modulus	modulus of impedance	AAF456-001
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motor	ac motor synchronism	AAE183-005
mounted	mounted height	AAE027-005
mounted	mounted height	AAG001-001
mounted	mounted length	AAG035-001
mounted	mounted width	AAG036-001
mounting	mounting base temperature	AAE336-005
mounting	mounting base temperature	AAE272-005
mounting	mounting deviation y/x	AAF405-001
mounting	mounting deviation y/z	AAF404-001
mounting	mounting features	AAE006-006
mounting	mounting height	AAE027-005
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mountina	mounting position	AAE144-005
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mounting	x-coor preferred mounting	AAF402-001
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mounting-cap	mounting-cap code	AAE522-005
movina	moving contact actuator type	AAE142-005
MPD	MPD delivery form	AAD155-001
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multiplicity	multiplicity	AAE101-006
name	accessory name	AAF309-005
name	die name	AAD002-001
name	fiducial file name	AAD157 001
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name	nackaged part name	AAD143 001
name	packageu part name	AAD143-001
name		AAD014-001
name		AAD019-001
name	supply name	AAD049-001

keyword	full preferred name	identifier
name	test name	AAD082-001
national	national standard	AAF043-005
nearest	nearest conventional type	AAE494-005
neck	neck diameter	AAE589-005
negative	negative capacitance	AAF448-001
3	tolerance	
negative	negative resistance tolerance	AAF452-001
negative	negative tolerance	AAF444-001
negative-going	negative-going threshold	AAF209-005
net	net area	AAF397-001
net	net space	AAE399-001
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noise	average noise figure	AAE647-005
noise	equivalent input noise	AAE380-005
110130	voltage	
noise	equivalent noise irradiation	AAE572-005
noise	equivalent noise voltage	AAE380-005
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noise	spot noise factor	AAE648-005
noise	spot noise factor	AAE657-005
noise	spot noise figure	AAE648-005
noise	spot noise figure	AAE657-005
no-load	no-load output voltage	AAE164-005
nominal	nominal capacity	AAE530-005
nominal	nominal current	AAE521-005
nominal	nominal output current	AAE160-005
nominal	nominal voltage	AAE519-005
non-extended	non-extended length	AAE998-005
non-rep	non-rep peak input current	AAE285-005
	limit	
non-rep	non-rep peak on-state	AAE730-005
	current	
non-rep	non-rep peak rev avalanche	AAE304-005
	energy	
non-rep	non-rep peak reverse current	AAE315-005
non-rep	non-rep peak reverse power	AAE303-006
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non-rep	non-rep peak reverse power	AAE327-006
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non-rep	diag	AAF 309-001
non ron	non ron variator nock ourrant	
non-rep	non-rep valision peak current	AAE204 005
non-repetitive	ourront	AAE294-005
non-repetitive	non-repetitive peak reverse	AAE318-005
non-repetitive	current	
	current	
non-repetitive	non-repetitive peak reverse	AAE301-005
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non ronotitivo	non ropotitivo surgo surropt	
non-repetitive	non-repetitive transient	AAE208 005
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	SMD	AAI 340-001
non-SMD	terminal shape non-SMD	AAF347-001
non-threaded	non-threaded stud length	AAG133_001
non-trip	non-trip current	ΔΔE137 005
non-uip normal		AAE 137-003
normal	normal average value	AAE266 004
NTC	NTC thermister type	AAF300-001
numbor	notual terminal purchas	AAJ004-001
number		AAGU59-001
number	yanying number	AAE 172-005
		AAE459-005
numper	number of bond sites	AAD018-001

keyword	full preferred name	identifier
number	number of cable elements	AAF255-005
number	number of cells in series	AAE940-005
number	number of charge cycles	AAE944-005
number	number of clock periods	AAE223-005
number	number of columns	AAF437-001
number	number of contact	AAE921-005
number	assemblies	AAL 32 1-003
numbor	assemblies	AAE250 005
number		AAE359-005
number	number of contacts per row	AAF 150-005
number	number of functions	AAE106-005
number	number of noies	AAF351-001
number	number of inputs	AAE458-005
number	number of internal registers	AAF230-005
number	number of peripherals	AAF329-005
number	number of phases	AAF131-005
number	number of pins	AAE754-005
number	number of pitches (x-axis)	AAF374-001
number	number of pitches (y-axis)	AAF375-001
number	number of poles	AAE921-005
number	number of poles	AAJ064-001
number	number of polygon vertices	AAD027-001
number	number of potential terminals	AAG037-001
number	number of primary coils	AAE048-005
number	number of rows	AAE360-005
number	number of accordary colla	AAE300-005
	number of secondary cons	AAF099-005
number	number of sections	AAE996-005
number	number of stable positions	AAE929-005
number	number of studs	AAF373-001
number	number of terminals	AAE139-005
number	number of terminals	AAE754-005
number	number of variable elements	AAE172-005
number	number of words	AAE474-005
number	termination number	AAD012-001
number	vertex number	AAD028-001
numbers	complex numbers	AAF441-001
numeral	numeral system	AAE457-005
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offset	input offset voltage	AAF155-005
offset	offset (x-axis)	AAE341-001
offset	offset (v-axis)	AAE340-001
offset	temp coef input offset current	AAE153-005
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on-state		AAE394-005
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off-state	HIGH off-state output current	AAE239-005
off-state	LOW off-state output current	AAE240-005
off-state	off-state current	AAE239-005
otf-state	ott-state current	AAE240-005
off-state	off-state current	AAF135-005
off-state	off-state supply current	AAE903-005
off-state	off-state voltage	AAE738-005
off-state	off-state voltage	AAE737-005
off-state	rate of rise of off-state volt	AAE727-005
off-state	rate of rise of off-state	AAE740-005
	voltage	
off-state	repetitive peak off-state	AAE739-005
	voltage	
on-chin	on-chin memory	AAE327-005
on-state	average on-state current	AAE744-005
on state	drain source on state	AAE201 005
UN-SLALE	resistance	AAE391-005
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on-state		AAE393-005
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on-state	iorward voltage	AAE499-005
on-state	non-rep peak on-state	AAE/30-005
	current	
on-state	on-state current	AAE733-005
on-state	on-state voltage	AAE279-005
on-state	rate of rise of on-state curr	AAE684-005
on-state	rate of rise on-state current	AAE734-005

keyword	full preferred name	identifier
on-state	repetitive peak on-state	AAE729-005
	current	/ (L / 20 000
on-state	rms on-state current	AAE728-005
on-state	rms on-state current	AAF063-005
on-state	surge on-state current	AAE730-005
open-circuit	open-circuit sensitivity	AAE862-005
open-circuit	open-circuit voltage	AAE529-005
opening	connector opening	AAE362-005
operate	operate time	AAE923-005
operating	maximum operating voltage	AAJ061-001
operating	operating frequency	AAE 166-005
operating	operating hequency	AAE872-005
operating	operating life	AAE857-005
operating	operating messure	AAE866-005
operating	operating voltage	AAE992-005
operating	operating voltage	AAE842-005
operation	mode of operation	AAE786-005
operational	rated operational current (dc)	AAF106-005
operational	rated operational voltage (ac)	AAE512-005
operational	rated operational voltage (dc)	AAF107-005
optic	fibre optic component	AAJ048-001
options	process options	AAD134-001
options	test options	AAD134-001
optoelectronic	optoelectronic device	AAE545-006
ontoelectronic	runction	AAE816-005
orientation	fiducial orientation	AAE810-005
orientation		AAD102-001
orientation	nad orientation	
other	other index length	AAG079-001
	3-state output leakage	AAE239-005
output	current	
output	3-state output leakage	AAE240-005
	current	
output	address to output delay	AAE720-005
output	average output current	AAE286-005
output	dc output diode current	AAE218-005
output	dynamic output current	AAF207-005
output	HIGH off-state output current	AAE239-005
output	HIGH-level output current	AAE255-005
output	HIGH-level output voltage	AAE092-005
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output	HIGH-state output voltage ref	AAE092-005
output	I OW off-state output current	AAE240-005
output	OW-level output current	AAE254-005
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output	LOW-level output voltage	AAE097-005
output	LOW-state output current	AAE254-005
output	LOW-state output voltage	AAE097-005
output	LOW-state output voltage ref	AAE094-005
output	max change rate output	AAF162-005
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output	maximum output current	AAE168-005
output	no-load output voltage	AAE164-005
output	nominal output current	AAE160-005
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output	output clamping current	AAE218-005
output	output current	AAE867-005
output	output current	AAE226-005
output	output current focus current	AAE282 005
output	output current limit	AAE218 005
output	output data-valid time	AAE232.005
output	output disable time	AAF215-005
output	output enable time	AAF214-005
output	output fall time	AAE235-005
output	output hold time	AAJ104-001
output	output impedance	AAF044-005
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keyword	full preferred name	identifier
output	output power	AAE165-005
output	output power	AAE422-005
output	output power	AAE955-005
output	output resistance	AAF165-005
output	output return losses	AAE702-005
output	output rise time	AAE238-005
output	output short-circuit current	AAF207-005
output	output sink current	AAE254-005
output	output sound pressure level	AAF193-005
output	output source current	AAE255-005
output	output standing wave ratio	AAE975-005
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output	output voltage	AAE698-005
output	output voltage	AAE726-005
output	output voltage	AAE228-005
output	output voltage EHT supply	AAE289-005
output	output voltage HIGH	AAE092-005
output	output voltage HIGH	AAE093-005
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output	output voltage peak-to-peak	AAF 158-005
output	output voltage swing	AAF 156-005
output	radiant output nower	AAE214-005
output	radiant output power	AAE301-005
output	abort circuit output	AAE207-005
output	capacitance	AAE903-005
outout		AAF704-005
output	sync output power	AAE704-005
output	total radiant output power	AAE065-005
outside	outside diameter	AAE022-005
overall	flange overall length	AAG085-001
overall	flange overall width	AAG086-001
overall	main overall length	AAG100-001
overall	overall diameter	AAG025-001
overall	overall height	AAG125-001
overall	overall length	AAE581-005
overall	overall length	AAG023-001
overall	overall length	AAG090-001
overall	overall width	AAG024-001
overall	secondary overall length	AAG101-001
overhang	package overhang	AAG046-001
overload	continuous overload	AAE168-005
package	amplifier package	AAE969-005
package	diode package	AAE331-005
package	IC package	AAJ046-001
package	IC package code	AAE838-005
package	manufacturer package code	AAG069-001
package	optoelectronic package	AAE816-005
package	package colour	AAE560-005
package	package colour	AAF128-005
package	package diameter	AAG014-001
раскаде	package diameter	AAG062-001
раскаде	package diameter	AAG116-001
package	package diameter zone	AAG022-001
раскаде	package neight	AAG003-001
раскаде	package neight zone	AAG092-001
раскаде	package identifier code	AAG060-001
package	package length	AAG013-001
package		AAG089-001
package		AAG020-001
package	package overhang	AAG040-001
package	package thickness	AAG003 001
package	package type	
nackade	package lype	AAG016-001
nackade	package width zone	AAG021-001
nackade	standard nackade code	AAG070-001
nackade	transistor nackage	AAF637-005
nackaged	packaged part name	AAD143-001
nacking	packing arrangement	AAF265-005
paoking	pasking analigement	

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packing	packing level	AAF270-005
packing	packing type	AAE111-005
packing	supply packing	AAD089-001
nacking	supply packing code	AAD055-001
packing	supply packing code	AAD000-001
packing	supply packing description	AAD090-001
pad	manufacturer pad identifier	AAD013-001
pad	pad current	AAD033-001
pad	pad diameter	AAD121-001
pad	pad geometry count	AAD116-001
pad	pad geometry name	AAD014-001
pad	pad length	AAD025-001
pad	pad metallisation	AAD120-001
pad	pad orientation	AAD017-001
nad	nad shane	
nad	pad supply current	AAD033-001
pau		AAD033-001
pad		AAD026-001
pad	pad x position	AAD015-001
pad	pad y position	AAD016-001
page	source document page	AAG068-001
parameter	core inductance parameter	AAE777-005
part	packaged part name	AAD143-001
pass-band	pass-band attenuation	AAF121-005
passivation	passivation material	AAD078-001
nath	effective magnetic nath	AAE776-005
patri	length	
noth	lookogo poth	AAE150.005
path	terreire et retterre	AAE 159-005
pattern	terminal pattern	AAG107-001
РСВ	PCB connector type	AAJ022-001
peak	anode current peak	AAF204-005
peak	collector current peak value	AAE407-005
peak	collector-emitter peak voltage	AAE415-005
peak	max peak voltage at I class	AAE319-005
peak	non-rep peak input current	AAE285-005
poun	limit	
neak	non-ren neak on-state	AAE730-005
pour	current	
noak	non ron noak roy avalancho	AAE304 005
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реак	non-rep peak reverse current	AAE315-005
peak	non-rep peak reverse power	AAE303-006
	diss	
peak	non-rep peak reverse power	AAE327-006
	diss	
peak	non-rep peak reverse power	AAF389-001
	diss	
peak	non-rep varistor peak current	AAE298-005
, peak	non-repetitive peak forward	AAE294-005
poun	current	
neak	non-repetitive peak reverse	AAE318-005
реак	current	
naak		
реак	non-repetitive peak reverse	AAE301-005
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peak	peak envelope power	AAE708-005
peak	peak envelope power PEP	AAE707-005
peak	peak flux density	AAE768-005
peak	peak inrush current limit	AAE284-005
peak	peak magnetic field strength	AAE767-005
neak	peak working current	AAE317-005
poak	PTC pook ourrent	AAE620 005
pear		AAE 640 005
реак	PIC peak inrush current	AAE619-005
peak	repetitive peak forward	AAE293-005
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peak	repetitive peak input voltage	AAE290-005
peak	repetitive peak off-state	AAE739-005
	voltage	
peak	repetitive peak on-state	AAE729-005
	current	
neak	repetitive peak output current	AAE287-005
poak	repetitive peak support current	AAE207-005
pear	epennive peak recovery	AAE291-005
реак	repetitive peak reverse	AAE291-005

keyword	full preferred name	identifier
	current	
peak	repetitive peak reverse power	AAE302-005
peak	repetitive peak reverse voltage	AAE300-005
peak	wavelength at peak emission	AAE556-005
peak	wavelength at peak response	AAE568-005
, peak	wavelength at peak value	AAE569-005
peak	working peak forward current	AAE296-005
peak-emission	peak-emission wavelength	AAE556-005
peak-response	peak-response wavelength	AAE568-005
peak-to-peak	input voltage peak-to-peak	AAE288-005
peak-to-peak	output voltage peak-to-peak	AAF158-005
penetration	difference in penetration factor	AAE716-005
PEP	peak envelope power PEP	AAE707-005
percentage	percentage tolerance	AAF443-001
performance	performance class	AAE357-005
performance	performance grade	AAE009-005
periodic/dc	periodic/dc function	AAE789-005
periods	number of clock periods	AAF223-005
peripheral	peripheral type	AAF335-005
peripheral	peripheral word size	AAF330-005
peripherals	number of peripherals	AAE329-005
permeability	amplitude permeability	AAE773-005
permeability	effective permeability	AAE771-005
permeability	initial permeability	AAE772-005
permeability	recoil permeability	AAE294-005
permeability	temperature factor of	AAE307-005
pormousing	permeability	
permutability	permutability indicator	AAF359-001
phase	current per phase	AAE203-005
phase	phase angle	AAF454-001
phase	phase angle	AAF455-001
phase	phase delay drift	AAE886-005
phase	phase delay time	AAE544-005
phase	phase relation	AAE885-005
phases	number of phases	AAF131-005
phosphor	phosphor code	AAE605-005
photoemitter	photoemitter function	AAE555-005
pickup	image pickup device type	AAJ074-001
picture	die picture	AAD127-001
pin	pin plug/jack type	AAJ026-001
pinning	pinning arrangement	AAE348-005
pins	number of pins	AAE754-005
pitch	contact pitch	AAJ039-001
pitch	hole pitch	AAF316-001
pitch	pitch (x-axis)	AAF321-001
pitch	pitch (v-axis)	AAF322-001
pitch	pitch circle diameter	AAF337-001
pitch	pixel pitch horizontal	AAE805-005
nitch	terminal pitch	AAE024-005
pitches	number of pitches (x-axis)	AAF374-001
nitches	number of pitches (v-axis)	AAE375-001
pixel	pixel pitch horizontal	AAE805-005
placement	adjuster placement	AAF371-001
placement	terminal placement	AAE008-005
PLD	PI D programmability	AAF231-005
plug/jack	concentric plug/jack type	AAJ025-001
plug/jack	de power plug/jack type	AA.1027-001
plug/jack	pin plug/jack type	AAJ026-001
plug/jack	plug/jack type	AAJ024-001
point	Curie point	AAE761-005
point	x-coordinate of the reference	AAF393-001
point	y-coordinate of the reference	AAF394-001
point	z-coordinate of the reference point	AAF395-001
Poisson	Poisson expectation value	AAF368-001
Poisson	Poisson variance value	AAF367-001

keyword	full preferred name	identifier
polarisation	polarisation	AAE354-005
polarity	polarity type	AAE263-005
polarity	transistor polarity	AAE638-005
nole	centre nole diameter	AAE051-005
noles	number of poles	AAE921-005
poles		AAL921-003
poles	number of poles	AAJ064-001
polygon	number of polygon vertices	AAD027-001
position	fiducial x position	AAD160-001
position	fiducial y position	AAD161-001
position	mounting hole position	AAG064-001
position	mounting position	AAE144-005
position	pad x position	AAD015-001
, position	pad v position	AAD016-001
position	terminal exit position non-	AAE346-001
poonton	SMD	
position	terminal exit position SMD	AAF345-001
position	terminal position code	AAG056-001
position	terminal reference position	AAG044-001
position	terminal reference position	AAG045-001
position	terminal reference position	AAG108-001
position	terminal reference position	AAG112 001
position	terminal reference position	AAG112-001
position	terminal reference position	AAG113-001
position	x-coor preferred mounting	AAF401-001
position	x-coor preferred mounting	AAF402-001
	position	
position	x-coordinate position location	AAF406-001
position	y-coordinate position location	AAF407-001
position	z-coor preferred mounting	AAF403-001
	position	
position	z-coordinate position location	AAF408-001
positions	contact positions	AAE359-005
positions	number of stable positions	AAE929-005
positions	quantity of terminal positions	AAG037-001
positions	quantity of terminal positions	AAG109-001
positions	quantity of terminal positions	AAG109-001
positions	quantity of terminal positions	AAG110-001
positions	stable positions	AAE929-005
positive	tolerance	AAF449-001
positive	positive resistance tolerance	AAF453-001
positive	positive tolerance	AAF445-001
positivo going	positive tolerance	AAE208 005
positive-going	pumber of potential terminals	AAC 027 001
	number of potential terminals	AAG037-001
potentiometer	potentiometer size	AAJ014-001
potentiometer	spindle material of	AAE145-005
nower	contact nower (ac)	AAF928-005
power	contact power (ac)	AAE120 005
power	contact power (dc)	AAF 130-005
power	ac power dissipation/output	AAE214-005
power	uc power plug/jack type	AAJ027-001
power	rusing power	AAJ011-001
power	input power	AAE182-005
power	load power	AAE422-005
power	maximum noise power	AAE048-005
power	noise equivalent power	AAE572-005
power	non-rep peak reverse power	AAE303-006
power	uiss non-rep peak reverse power diss	AAE327-006
power	non-rep peak reverse power	AAF389-001
nower	output nower	AAE165 005
power		AAE 400-000
power	output power	AAE422-005
power	output power	AAE955-005
power	peak envelope power	AAE708-005
power	peak envelope power PEP	AAE707-005
power	power consumption	AAE987-005
power	power consumption	AAJ063-001
power	power dissipation	AAE257-005
power	power dissipation per output	AAE214-005
nower	power gain	AAF424-005
P 311 31	penor gam	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

keyword	full preferred name	identifier
power	power handling capacity	AAE048-005
power	power limit	AAD151-001
power	power loss	AAE775-005
power	power socket type	AAJ030-001
power	power supply rejection ratio	AAF170-005
power	power transformer	AAF098-005
•	application	
power	radiant output power	AAE561-005
power	rated power	AAE048-005
power	repetitive peak reverse	AAE302-005
	power	
power	sync output power	AAE704-005
power	synchronous output power	AAE714-005
power	thermal time-constant	AAJ073-001
	(power)	A A E 3 7 E . 0.0 E
power	total power loss	AAE775-005
power	total radiant output power	AAF065-005
power	unilateral power gain	AAE/13-005
power/signal	fues pro proing time	AAE 152-005
pre-arcing	nuse pre-arcing time	AAJU34-001
preferred	x coor proferred mounting	AAE991-005
preferred	nosition	AAI 401-001
preferred	x-coor preferred mounting	AAF402-001
preferred	position	1011 402 001
preferred	z-coor preferred mounting	AAF403-001
	position	
preformed	preformed lead	AAF372-001
pressure	operating pressure	AAE866-005
pressure	output sound pressure level	AAF193-005
pressure	pressure mode	AAE864-005
primary	number of primary coils	AAF048-005
primary	primary electrochemical	AAE531-005
nrimitive	primitive height	AAF428-001
principle	sensor working principle	AAE893-005
principle	transducer principle	AAE005-006
principle	working principle	AAE877-005
printed	printed board thickness	AAE362-005
probability	probability distribution	AAF364-001
procedure	test procedure description	AAD060-001
process	process options	AAD134-001
product	B_r x H_cJ product	AAF296-005
product	BH product max	AAF295-005
product	gain bandwidth product	AAF167-005
product	RC product	AAE066-005
programmability	PLD programmability	AAF231-005
programmability	ROM programmability	AAF236-005
programming	programming current	AAF237-005
programming	programming voltage	AAF238-005
project	project view code	AAF392-001
propagation	HIGH to LOW propagation	AAE233-005
propagation	LOW to HICH propagation	AAE227 005
propagation	time	AAE237-005
propagation	propagation delay	AAE231-005
PTC	PTC application	AAE618-005
PTC	PTC peak current	AAE620-005
PTC	PTC peak inrush current	AAE619-005
PTC	PTC residual current	AAE629-005
PTC	PTC switching resistance	AAE626-005
pull-in	max pull-in	AAE202-005
pull-in	pull-in rate	AAE205-005
pull-in	pull-in torque	AAE202-005
pull-out	pull-out rate	AAE206-005
pull-out	pull-out torque	AAE201-005
pulse	current (pulse)	AAE125-005
pulse	pulse duration HIGH	AAF216-005
pulse	pulse duration LOW	AAF217-005
pulse	pulse shape	AAE622-006
pulse	pulse width HIGH	AAF216-005

keyword	full preferred name	identifier
pulse	pulse width LOW	AAF217-005
pulse	rated input voltage (pulse)	AAE204-005
Q-factor	Q-factor	AAJ090-001
a-supply	additional g-supply current	AAE897-005
quality	quality approval authority	AAE687-005
quality	quality assurance	AAE687-005
quality	quality certification	AAE687-005
quality	quality factor	AAE518 005
quality	quality factor	AAL000 001
quality		AAJ090-001
quality	quality grade	AAE840-005
quantity	actual quantity of termination	AAG059-001
quantity	actuating quantity	AAE926-005
quantity	amplified quantity	AAF169-005
quantity	quantity of missing terminals	AAG038-001
quantity	quantity of terminal positions	AAG037-001
quantity	quantity of terminal positions	AAG109-001
quantity	quantity of terminal positions	AAG110-001
quantity	sensor input quantity	AAE892-005
quiescent	additional quiescent current	AAE897-005
quiescent	quiescent current	AAE896-005
quiescent	quiescent supply current	AAE896-005
radial	maximum radial force	AAE190-005
radiant	radiant flux	AAE561-005
radiant	radiant flux	AAE065 005
radiant	radiant intensity	AAF064 005
		AAF064-005
radiant	radiant output power	AAE561-005
radiant	total radiant output power	AAF065-005
radiation	radiation type	AAE566-005
radius	bending radius	AAF434-001
radius	cone radius	AAF414-001
radius	curve radius	AAG043-001
radius	cylinder radius	AAF409-001
radius	external radius	AAF431-001
radius	face-plate radius	AAE804-005
radius	internal radius	AAF430-001
radius	larger flange radius	AAG083-001
radius	major radius of torus	AAF421-001
radius	minor radius	AAF432-001
radius	minor radius of torus	AAF422-001
radius	scroop curvaturo radius	
radius	screen curvature radius	AAC084-003
radius		AAG084-001
		AAF417-001
RAM	RAM type	AAF233-005
random	random read/write cycle time	AAJ094-001
range	common-mode input voltage	AAF157-005
	range	
range	max range value	AAF360-001
range	min range value	AAF361-001
RAS	access time from RAS	AAE720-005
RAS	access time from RAS	AAJ095-001
rate	defect rate	AAD131-001
rate	instruction rate	AAF229-005
rate	LDR recovery rate	AAE617-005
rate	max change rate output	AAF162-005
	voltage	
rate	null-in rate	AAE205-005
rato	pull-out rate	AAE206-005
rato	rate change of forward	AAE275 005
late	ourront	AAL275-005
rata	rate of rise commutating	
rate		AAE741-005
	voltage	
rate	rate of rise of commut current	AAE735-005
rate	rate of rise of gate current	AAE736-005
rate	rate of rise of off-state volt	AAE727-005
rate	rate of rise of off-state	AAE740-005
	voltage	
rate	rate of rise of on-state curr	AAE684-005
rate	rate of rise on-state current	AAE734-005
rate	slew rate	AAF162-005
rate	stepping rate	AAE209-005
rated	connector rated current	AAJ043-001
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keyword	full preferred name	identifier
rated	connector rated voltage	AAJ042-001
rated	rated breaking capacity	AAF122-005
rated	rated current	AAE525-005
rated	rated force	AAF133-005
rated	rated impedance	AAE049-005
rated	rated input current	AAE197-005
rated	rated input voltage (ac)	AAE184-005
rated	rated input voltage (dc)	AAE186-005
rated	rated input voltage (pulse)	AAE204-005
rated	rated operational current (dc)	AAF 100-005
rated	rated operational voltage (ac)	AAE512-005
rated	rated operational voltage (uc)	AAF107-005
rated	rated power	AAE195-005
rated	rated temperature	AAE267-005
rated	rated temperature	AA.1055-001
rated	rated torque	AAE191-005
rated	rated voltage	AAJ010-001
rated	rated voltage	AAJ060-001
rated	rated voltage (ac)	AAE045-005
rated	rated voltage (dc)	AAE044-005
rated	upper rated frequency	AAE339-005
ratio	brightness contrast ratio	AAE848-005
ratio	capacitance ratio	AAE502-005
ratio	collector current ratio	AAE640-005
ratio	common mode rejection ratio	AAE374-005
ratio	common-mode rejection ratio	AAF160-005
ratio	contrast ratio	AAE848-005
ratio	current transfer ratio	AAE548-005
ratio	input standing wave ratio	AAE974-005
ratio	luminance contrast ratio	AAE848-005
ratio	multiplex ratio	AAE839-005
ratio	output standing wave ratio	AAE975-005
ratio	power supply rejection ratio	AAF170-005
ratio	resistance ratio	AAE875-005
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ratio	supply voltage rejection ratio	AAF170-005
	PC product	AAJ041-001
reactance		AAE458-001
read/write	random read/write cycle time	AAI 430-001 AA 1094-001
recoil	recoil permeability	AAF294-005
record	date of creation of record	AAG074-001
recoverv	LDR recovery rate	AAE617-005
recoverv	recovery time	AAF219-005
recovery	repetitive peak recovery	AAE297-005
	current	
recovery	reverse recovery time	AAE281-005
recovery	reverse recovery time (I)	AAF301-005
recovery	total reverse recovery time	AAE306-005
rectifier	rectifier diode application	AAE505-005
reference	drawing reference code	AAG066-001
reference	electrical reference	AAD021-001
reference	IEC reference class	AAE000-001
reference	reference capacitance	AAE860-005
reference	reference conditions	AAE995-005
reference	reference resistance	AAE874-005
reference	reference temperature	AAE017-005
reference		AAF356-001
	reference voltage	AAE324-005
rererence	stanuarus document	AAGU71-001
reference	terminal reference position	AAG044-001
reference	terminal reference position	AAG045-001
reference	terminal reference position	AAG108-001
reference	terminal reference position	AAG112-001
reference	terminal reference position	AAG113-001
reference	x-coordinate of the reference	AAF393-001
	point	
reference	y-coordinate of the reference	AAF394-001
	point	

keyword	full preferred name	identifier
reference	z-coordinate of the reference	AAF395-001
refresh	refresh time	AAF331-006
refresh	refresh time interval	AAF331-006
register	register type	AAF234-005
registers	number of internal registers	AAF230-005
regulation	regulation voltage	AAE324-005
rejection	common mode rejection ratio	AAE374-005
rejection	common-mode rejection ratio	AAF160-005
rejection	power supply rejection ratio	AAF170-005
rejection	supply voltage rejection ratio	AAF170-005
relation	phase relation	AAE885-005
relative	relative humidity	AAE859-005
relative	relative humidity RH_1	AAE954-005
relative	stross relative humidity	AAE953-005
release	release time	AAF279-002
release	release voltage (ac)	AAE050-005
release	release voltage (dc)	AAF129-005
reliability	test reliability code	AAD153-000
reluctivity	temperature factor of	AAE307-005
	reluctivity	
remanence	remanence	AAF292-005
remanent	remanent flux density	AAF292-005
removal	removal time	AAF219-005
repetitive	current	AAE293-005
repetitive	repetitive peak input voltage	AAE290-005
repetitive	repetitive peak off-state voltage	AAE739-005
repetitive	repetitive peak on-state current	AAE729-005
repetitive	repetitive peak output current	AAE287-005
repetitive	repetitive peak recovery	AAE297-005
repetitive	repetitive peak reverse	AAE297-005
repetitive	repetitive peak reverse	AAE302-005
repetitive	repetitive peak reverse voltage	AAE300-005
requirement	connection requirement	AAD091-001
requirement	connection requirement code	AAD006-001
residual	PTC residual current	AAE629-005
resistance	base-emitter resistance	AAE906-005
resistance	common-mode input resistance	AAF164-005
resistance	contact resistance	AAE920-005
resistance	contact-circuit resistance	AAE920-005
resistance	dark resistance	AAE123-005
resistance	dc resistance	AAF090-005
resistance	dc resistance	AAF245-005
resistance	differential input resistance	AAF163-005
resistance	ditterential resistance	AAE323-005
resistance	differential resistance	AAE328-005
resistance	diode forward resistance	AAE310-005
resistance	diode reverse resistance	AAE311-005
resistance	diode series resistance	AAE310-005
resistance	diode series resistance	AAE311-005
resistance	resistance	AAE394-005
resistance	drain-source on-state	AAE391-005
resistance	resistance drain-source on-state	AAE393-005
rosistanco	resistance	
resistance	field coil registeres	AAE004-005
resistance	insulation resistance	AAE010-005
resistance	insulation resistance	AAE003-005
resistance	insulation resistance	AAE 100-000
16919101108	insulation resistance	AAF 349-001

keyword	full preferred name	identifier
resistance	insulation resistance	AAJ087-001
resistance	light resistance	AAE124-005
resistance	line coil resistance	AAE609-005
resistance	load resistance	AAE212-005
resistance	negative resistance tolerance	AAF452-001
resistance	output resistance	AAF165-005
resistance	positive resistance tolerance	AAF453-001
resistance	PTC switching resistance	AAE626-005
resistance	reference resistance	AAE874-005
resistance	resistance	AAE119-005
resistance	resistance	AAF450-001
resistance	resistance	AAF457-001
resistance	resistance	AAE956-005
resistance	resistance at 25 Cel	AAE127-005
resistance	resistance dependency	AAE122-005
resistance	resistance element material	AAE116-005
resistance	resistance law (IEC)	AAE141-005
resistance	resistance ratio	AAE875-005
	R Tamb/R Tref	
resistance	resistance tolerance	AAF100-005
resistance	symmetric resistance	AAF451-001
	tolerance	
resistance	thermal resistance	AAE688-005
resistance	thermal resistance type	AAE689-005
resistance	tolerance of TC of resistance	AAJ013-001
resistance	toleranced resistance	AAF463-001
resistive	resistive material	AAE116-005
resistivity	resistivity	AAE760-005
resistor	linearity of a fixed resistor	AAF114-007
resistor	resistor interconnection	AAE102-005
resistor	resistor noise index	AAE621-005
resistor	single resistor type	AA.1003-001
resolution	horizontal resolution	AAE806-005
resolution	vertical resolution	AAE205-005
resonance	fundamental resonance	AAE050-005
resonance	frequency	
resonance	lowest resonance frequency	AAE050-005
resonance	resonance frequency	AAE050-005
resonance	resonance frequency	AAE052-005
resonant	resonant frequency	
resonator	resonator type	AA 1088-001
response	conformity of frequency	AA5000-001
response	response	
response	flatness of frequency	AAE706-005
response	response	
response		AAE528-005
response	spectral response lower limit	AAE573-005
rosponso	spectral response uppor limit	AAE573-005
response	total response time	AAE168 005
response	wavelength at peak response	AAT 100-005
response	responsivity	AAE571-005
responsivity	veltage responsivity	AAE571 005
responsivity	dete retention surrent	AAE371-005
retention		AAF332-005
retention		AAF333-005
		AAE701-005
return		AAE702-005
reverse	continuous direct reverse current	AAE276-005
reverse	crest working reverse voltage	AAE299-005
reverse	diode reverse resistance	AAE311-005
reverse	non-rep peak reverse current	AAE315-005
reverse	non-rep peak reverse power	AAE303-006
reverse	non-rep peak reverse power	AAE327-006
reverse	non-rep peak reverse power	AAF389-001
reverse	diss non-repetitive peak reverse	AAE318-005
rovorso	current	AAE301 005
1576126	voltage	AAE301-005

keyword	full preferred name	identifier
reverse	repetitive peak reverse	AAE297-005
reverse	repetitive peak reverse	AAF302-005
	power	
reverse	repetitive peak reverse voltage	AAE300-005
reverse	reverse current	AAE276-005
reverse	reverse current	AAE994-005
reverse	reverse current dark	AAF144-005
reverse	reverse current light	AAF143-005
reverse	reverse gate current	AAE372-005
reverse	reverse recovery time	AAE281-005
reverse	reverse recovery time (I)	AAF301-005
reverse	reverse voltage	AAE277-005
reverse	reverse voltage	AAE335-005
reverse	total reverse recovery time	AAE306-005
reverse	working reverse voltage	AAE299-005
ripple	ripple current	AAE960-005
rise	output rise time	AAE238-005
rise	voltage	AAE741-005
rise	rate of rise of commut current	AAE735-005
rise	rate of rise of gate current	AAE736-005
rise	rate of rise of off-state volt	AAE727-005
rise	rate of rise of off-state	AAE740-005
rise	rate of rise of on-state curr	AAE684-005
rise	rate of rise on-state current	AAE734-005
rise	rise time	AAE976-005
rise	rise time	AAF058-005
rise	rise time	AAE225-005
ROM	ROM programmability	AAF236-005
rotation	angle of mechanical rotation	AAE173-005
rotation	direction of rotation	AAE188-005
rotation	rotation torque	AAJ015-001
rotation	total mechanical rotation	AAE173-005
rotor	rotor inertia	AAE189-005
row	lead row spacing	AAG053-001
row	lead row spacing	AAG080-001
row	number of contacts per row	AAF150-005
row	terminal row spacing	AAG053-001
row	terminal row spacing	AAG080-001
row	terminal row spacing	AAG087-001
row	terminal row splay	AAG088-001
rows	number of rows	AAE360-005
safety	safety approval	AAE149-005
safety	safety class	AAE036-005
sat	collector-emitter sat voltage	AAE416-005
saturation	base emitter seturation	AAE551-005
Saturation	voltage	AAF114-005
saturation	collector saturation current	AAE641-005
saturation	saturation field strength	AAF290-005
saturation	saturation flux density	AAF308-005
scale	scale	AAF396-001
screen	screen curvature radius	AAE804-005
screen	screen diagonal	AAE592-005
screen	screen shape	AAF271-005
screen	useful screen horizontal	AAE593-005
screen	useful screen vertical	AAE594-005
screening	screening	AAF047-005
sealing	sealing	AAE508-005
sealing	sealing	AAJ072-001
sealing	sealing class	AAJU18-001
seated	seated height	AAE027-005
seated	seated neight	AAG001-001
seating	terminal seating angle	AAG052-001
secondary	number of secondary colls	AAF099-005
secondary	secondary electrochemical	AAE532-005
secondarv	secondary overall length	AAG101-001

keyword	full preferred name	identifier
secondary	secondary terminal length	AAG099-001
sections	number of sections	AAE996-005
semi	semi angle	AAF416-001
sensitivity	open-circuit sensitivity	AAE862-005
sensitivity	sensitivity	AAE861-005
sensitivity	sensitivity	AAE865-005
sensitivity	sensitivity	AAF193-005
sensitivity	spectral sensitivity	AAE567-005
sensitivity	supply voltage sensitivity	AAF161-005
sensitivity	thermal sensitivity index B25/75	AAE616-005
sensitivity	thermal sensitivity index B25/85	AAE132-005
sensitivity	thermal sensitivity tolerance	AAF282-005
sensor	sensor input quantity	AAE892-005
sensor	sensor working principle	AAE893-005
separating	separating force	AAF046-005
separation	element separation	AAE575-005
separation	mounting hole separation	AAG042-001
separation	separation	AAE151-005
sequence	drawing sequence code	AAG104-001
sequence	termination count sequence	AAG072-001
series	diode series resistance	AAE310-005
series	diode series resistance	AAE311-005
series	E series	AAE030-005
series	equivalent series resistance	AAE064-005
series	number of cells in series	AAE940-005
set	instruction set	AAF324-005
set	instruction set architecture	AAF222-005
settling	settling time	AAE168-005
set-un	address set-up time	AA.1098-001
set-un	clock set-up time	AA 1102-001
sot-up	input set-up time	AA 1100-001
sot-up	set-up time	AAE212-005
501 UP	contact sex	AAE353-005
SOX	sox of contacts	AAE353 005
SOX	sex of cuides	AAE353-005
chaft	shaft diameter	AA 1070-001
shaft	shaft longth	AAJ070-001
shaft		AAJ009-001
shano	body chopo	AA5008-001
shape		AAF344-001
shape		AAF242-000
shape		AAE356-005
shape		AAE766-005
snape		AAD024-001
snape	puise snape	AAE622-006
snape	screen snape	AAF271-005
snape	snape of flange	AAE061-005
snape	terminal cross-section snape	AAF376-001
snape	terminal shape	AAE007-005
snape	terminal shape code	AAG058-001
snape	terminal snape non-SMD	AAF347-001
snape	terminal snape SMD	AAF 348-001
snape/size	snape/size code BSI	AAE259-005
shelf	shelf life	AAE041-005
snelt	shelt life	AAE942-005
shell	shell material	AAE351-006
shell	shell type	AAF467-001
short-circuit	output short-circuit current	AAF207-005
short-circuit	short-circuit input capacitance	AAE982-005
short-circuit	short-circuit output capacitance	AAE983-005
short-term	leakage current short-term	AAE042-005
shoulder	shoulder length	AAG065-001
shoulder	shoulder thickness	AAG006-001
shoulder	shoulder width	AAG005-001
signal	signal direction	AAD022-001
signal	signal handling type	AAE971-007
signal	signal name	AAD019-001
signal	signal transformer type	AAJ075-001
s.g.iai	elg. al d'alloronnor type	

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keyword	full preferred name	identifier
signal	signal type	AAD020-001
signal	signal type	AAE077-005
signal	signal type	AAE785-005
signal	spurious signal level	AAE880-005
signal	spurious signal level (2-tau)	AAE888-005
signal	spurious signal level (3-tau)	AAE879-005
simultaneity	simultaneity factor	AAF436-001
single	single resistor type	AAJ003-001
sink	output sink current	AAE254-005
sites	number of bond sites	AAD018-001
size	addressable storage size	AAF228-005
SIZE	bump size	AAD122-001
size		AAF388-001
size		AAF244-005
size	incromont size	AAE705-005
sizo	noriphoral word size	AAE330 005
size	periprierar word size	AAI 030-003
size	size code	AAJ014-001
size	size code FIA	AAE353-001
size	size tolerance	AAD117-001
size	storage size	AAE474-005
size	tube size (cm)	AAE595-005
size	tube size (inch)	AAF272-005
size	wafer size	AAD011-001
size	word size	AAE459-005
slew	slew rate	AAF162-005
slide	slide force	AAJ020-001
slide	slide length	AAJ019-001
slope	slope cable equivalent	AAE705-005
slug	slug diameter	AAG102-001
slug	slug width	AAG103-001
small	small terminal type	AAJ032-001
smaller	smaller flange radius	AAG084-001
small-signal	small-signal current gain	AAE410-005
small-signal	small-signal unity gain	AAF166-005
SMD	terminal exit position SMD	AAF345-001
SMD	terminal shape SMD	AAF348-001
socket	power socket type	AAJ030-001
socket	socket type	AAF148-005
socket	socket type	AAJ028-001
socket	tube socket type	AAJ029-001
socket-iniet	socket-iniet	AAE345-005
sound	output sound prossure lovel	AAE104-005
source	die data source	AAT 193-003
source		AAE255-005
source	source cut-off current	AAE373-005
source	source document	AAG067-001
	identification	
source	source document page	AAG068-001
source	source impedance	AAE936-005
source-substrate	source-substrate voltage	AAE388-005
source-substrate	source-substrate voltage limit	AAE387-005
space	gross space	AAF400-001
space	net space	AAF399-001
spacing	angular terminal spacing	AAG049-001
spacing	angular terminal spacing	AAG050-001
spacing	bent terminal spacing	AAG091-001
spacing	bent terminal spacing	AAG105-001
spacing	dot spacing	AAE986-005
spacing	inner tape spacing	AAF267-005
spacing	lead row spacing	AAG053-001
spacing	lead row spacing	AAG080-001
spacing	lead spacing	AAG017-001
spacing	stand-off spacing	AAG015-001
spacing	terminal row spacing	AAG053-001
spacing	terminal row spacing	AAG000-001
spacing	terminal row spacing	AAG007-001
spacing	ierninai spacify	nngu 17-001

keyword	full preferred name	identifier
spark	spark distance	AAE158-005
spark	spark gap	AAE158-005
spark	spark gap type	AAJ081-001
specific	specific capacitance	AAE990-005
specific	specific current consumption	AAE845-005
specific	specific total loss	AAF300-005
specification	CECC specification	AAE347-005
specification	MIL specification	AAF370-001
specification	temperature specification	AAD133-001
spectral	spectral bandwidth	AAE557-005
spectral	spectral response lower limit	AAE573-005
spectral	spectral response upper limit	AAE574-005
spectral	spectral sensitivity	AAE567-005
speed	rated speed	AAE195-005
speed	speed	AAE524-005
speed	speed	AAF049-005
speed	speed	AAE193-005
speed	synchronous speed	AAE194-005
sphere	sphere radius	AAF417-001
spindle	spindle diameter	AAF148-005
spindle	spindle length	AAE147-005
spindle	spindle material	AAE145-005
spindle	spindle material of	AAE145-005
Spinale	notentiometer	///E140 000
snlav	terminal row splay	AAG088-001
spidy	hot spot temperature	AAC0000-001
spot	spot noise factor	AAE648-005
spor	spot noise factor	AAE657-005
spot		AAE649 005
spot	spot noise figure	AAE657 005
spor	spot hoise ligure	AAC051-003
spreau		AAG031-001
spring		AAF 125-005
spurious	spurious signal level (2 tou)	AAE000-005
spurious	spurious signal level (2-tau)	AAE000-005
spurious	spurious signal level (3-tau)	AAE879-005
squared	I squared t for fusing	AAE305-005
stability	stability	AAE907-005
stability	stability after test	AAF097-005
stability	stability test	AAF096-005
stable	number of stable positions	AAE929-005
stable	stable positions	AAE929-005
stack	EHT stack application	AAE503-005
standard	international standard	AAE012-005
standard	national standard	AAF043-005
standard	normal standard deviation	AAF366-001
standard	standard package code	AAG070-001
standards	standards document	AAG071-001
	reterence	
standby	standby current	AAF336-005
standby	standby current chip disabled	AAF336-005
standby	standby current disabled	AAE692-005
standby	standby current enabled	AAE693-005
standing	input standing wave ratio	AAE974-005
standing	output standing wave ratio	AAE975-005
standing	voltage standing wave ratio	AAJ041-001
stand-off	reverse voltage	AAE335-005
stand-off	stand-off diameter	AAG007-001
stand-off	stand-off height	AAG002-001
stand-off	stand-off length	AAG065-001
stand-off	stand-off major dimension	AAG005-001
stand-off	stand-off minor dimension	AAG006-001
stand-off	stand-off spacing	AAG015-001
stand-off	stand-off voltage	AAE277-005
starting	starting torque	AAE196-005
starting	starting torque	AAE199-005
state	unprogrammed state	AAF235-005
state	virginity state	AAF235-005
status	component status	AAE965-005
step	die step dimension x	AAD070-001
E.		

keyword	full preferred name	identifier
step	die step dimension y	AAD071-001
step	step angle	AAE208-005
step	step length	AAF061-005
stepping	stepping rate	AAE209-005
stop	lever stop force	AAJ021-001
storage	addressable storage size	AAF228-005
storage	carrier storage time	AAF055-005
storage	storage capacity	AAE474-005
storage	storage function	AAE722-007
storage	storage humidity	AAE858-005
storage	storage life	AAE942-005
storage	storage size	AAE474-005
storage	storage temperature	AAE841-005
storage	storage type	AAF334-005
strength	dielectric strength	AAF251-005
strength	field strength at (BH) max	AAF289-005
strength	magnetic field strength	AAE863-005
strength	magnetic field strength	AAF284-005
strength	peak magnetic field strength	AAE767-005
strength	saturation field strength	AAF290-005
stress	junction stress temperature	AAF275-002
stress	stress ambient free air	AAF278-002
	temper	
stress	stress ambient temperature	AAF278-002
stress	stress relative humidity	AAF279-002
stress	stress temperature max	AAF277-002
stress	stress temperature min	AAF276-002
etroce	virtual junction stress temper	AAF275-002
stroko	stroko longth	AAI 27 3-002
structure	bus structure	AAE221 005
structure	otructure	AAF221-003
structure	structure	AAC122 001
stud	non-inreaded stud length	AAG133-001
stud	stud tength	AAG095-001
stud	stud thread diamatan	AAG096-001
stud		AAG093-002
studs		AAF373-001
style	connecting style	AAJ038-001
style	coupling style	AAJ038-001
style	package style code	AAG057-001
style	snatt style	AAJ068-001
style	termination style	AAJ037-001
sub-class	dielectric sub-class 1	AAE266-005
sub-class	dielectric sub-class 2	AAE076-005
substrate	substrate connection	AAD007-001
substrate	substrate connection	AAD093-001
substrate	substrate length	AAE870-005
substrate	substrate material	AAD005-001
substrate	substrate temperature	AAE868-005
substrate	substrate width	AAE8/1-005
suffix	drawing suffix	AAG104-001
supplier	die supplier	AAD141-001
supply	dc supply current	AAE691-005
supply	dc supply voltage	AAE086-005
supply	dc supply voltage	AAE690-005
supply	HIGH-state supply current	AAE901-005
supply	LOW-state supply current	AAE902-005
supply	off-state supply current	AAE903-005
supply	output current EHT supply	AAE282-005
supply	output current focus supply	AAE283-005
supply	output voltage EHT supply	AAE289-005
supply	pad supply current	AAD033-001
supply	power supply rejection ratio	AAF170-005
supply	quiescent supply current	AAE896-005
supply	supply current	AAD054-001
supply	supply current	AAE691-005
supply	supply current	AAE901-005
supply	supply current	AAE902-005
supply	supply current	AAE903-005
supply	supply current type	AAE178-005
supply	supply form	AAD087-001

keyword	full preferred name	identifier
supply	supply form code	AAD056-001
supply	supply form description	AAD088-001
supply	supply name	AAD049-001
supply	supply nacking	AAD089-001
supply	supply packing code	
supply	supply packing code	AAD000-001
supply	supply packing description	AAD090-001
supply	supply variability	AAD031-001
supply	supply voltage	AAD032-001
supply	supply voltage	AAE163-005
supply	supply voltage	AAE690-005
supply	supply voltage	AAE102-005
supply	supply voltage	AAE547-005
supply	supply voltage limit	AAE086-005
supply	supply voltage rejection ratio	AAF170-005
supply	supply voltage sensitivity	AAF161-005
surface	case temperature	AAE260-005
surface	die surface	
surface	maximum surface	AAE115-005
Sullace	tomporaturo	AAL 113-003
ourfood mount		AAC072 001
surface-mount	sunace-mount nag	AAG073-001
surge	non-repetitive surge current	AAE298-005
surge	surge current	AAJ086-001
surge	surge on-state current	AAE730-005
surge	surge voltage	AAJ054-001
susceptance	susceptance	AAF461-001
swap	swap codes	AAD023-001
swapability	swapability indicator	AAF358-001
swing	output voltage swing	AAF158-005
switch	switch actuation	AAE931-006
switch	switch temperature	AAE138-005
owitch	switch type	AA 1047 001
Switching	Switch type	AAJ047-001
switching	histories in switching	AAE009-005
a section de la companya de la compa		
switching	PTC switching resistance	AAE626-005
switching	switching frequency	AAE872-005
switching	switching function	AAE506-005
switching	switching temperature	AAE138-005
switching	switching time	AAE235-005
switching	switching time	AAE238-005
switching	travel in switching distance	AAE869-005
symmetric	symmetric capacitance	AAF447-001
,	tolerance	
symmetric	symmetric resistance	AAF451-001
-,	tolerance	
symmetric	symmetric tolerance	AAF443-001
evno	sync output power	AAE704-005
ovnohroniom	as motor synchronism	AAE102 005
synchronisin		AAE 103-005
synchronous	synchronous output power	AAE714-005
synchronous	synchronous speed	AAE194-005
system	magnetisation system	AAE174-005
system	numeral system	AAE457-005
system	primary electrochemical	AAE531-005
	system	
system	secondary electrochemical	AAE532-005
	system	
tag	tag hole diameter	AAG118-001
tag	tag hole diameter	AAG119-001
tag	tag hole diameter	AAG120-001
tag	tag hole distance	AAG120-001
tag	tag hole distance	AAG121-001
lag	tag hole distance	AAG122-001
lag	tag note distance	AAG123-001
tag	tag hole width	AAG117-001
tangent	tangent of loss angle	AAE065-005
tape	inner tape spacing	AAF267-005
taping	taping	AAE112-005
тс	tolerance of TC of resistance	AAJ013-001
TCR	TCR tolerance	AAJ013-001
technology	diode technology	AAF489-005
technology	electrode tochnology	
technology		AAE031-005
тесппотоду	encapsulation technology	AAE202-005

keyword	full preferred name	identifier
technology	IC technology	AAE686-005
technology	transistor technology	AAE401-005
temp	temp coef input offset current	AAF153-005
temp	temp coef input offset	AAF156-005
	voltage	
temper	stress ambient free air	AAF278-002
	temper	
temper	virtual junction stress temper	AAF275-002
temperature	ambient temperature	AAE891-005
temperature	ambient temperature	AAE014-005
temperature	capacitance change with	AAJ057-001
tomporaturo		
tomporaturo		AAE200-005
temperature	category temperature	AAL091-003
temperature	colour temperature	AA5000-001
temperature	Curie temperature	AAE761-005
temperature	FIA temperature	AAE037-005
tomportatare	characteristic	
temperature	heatsink temperature	AAE400-005
temperature	hot spot temperature	AAE115-005
temperature	junction stress temperature	AAF275-002
temperature	junction temperature	AAE337-005
temperature	junction temperature	AAE271-005
temperature	maximum assembly	AAD149-001
	temperature	
temperature	maximum body temperature	AAE115-005
temperature	maximum surface	AAE115-005
	temperature	
temperature	mounting base temperature	AAE336-005
temperature	mounting base temperature	AAE272-005
temperature	rated temperature	AAE267-005
temperature	rated temperature	AAJ055-001
temperature	storago tomporaturo	AAE017-005
temperature	stress ambient temperature	AAE278-002
temperature	stress temperature may	AAF277-002
temperature	stress temperature min	AAF276-002
temperature	substrate temperature	AAE868-005
temperature	switch temperature	AAE138-005
temperature	switching temperature	AAE138-005
temperature	temperature	AAE685-005
temperature	temperature coefficient	AAE113-005
temperature	temperature coefficient	AAE876-005
temperature	temperature coefficient	AAF350-001
temperature	temperature coefficient (cap)	AAE067-005
temperature	temperature coefficient Br	AAF297-005
temperature	temperature coefficient code	AAE035-005
temperature	temperature coefficient H_cJ	AAF291-005
temperature	temperature coefficient S_F	AAE329-005
temperature	temperature coefficient S_Z	AAE322-005
temperature	temperature factor of	AAF307-005
tomporaturo	temperature factor of	AAE307 005
temperature		AAF 307-005
temperature	temperature specification	AAD133-001
temperature	temperature T 1	AAE958-005
temperature	temperature T_2	AAE959-005
temperature	temperature type	AAE683-005
temperature	tie point temperature	AAE326-005
temperature	virtual junction temperature	AAE337-005
temperatures	test temperatures	AAD133-001
terminal	actual terminal number	AAG059-001
terminal	angular terminal spacing	AAG049-001
terminal	angular terminal spacing	AAG050-001
terminal	angular terminal spread	AAG051-001
terminal	bent terminal spacing	AAG091-001
terminal	bent terminal spacing	AAG105-001
terminal	index terminal length	AAG115-001
terminal	main terminal length	AAG098-001
terminal	quantity of terminal positions	AAG037-001

kowword	full proferred name	identifier
Keyworu	lun preferred name	Identifier
terminal	quantity of terminal positions	AAG109-001
terminal	quantity of terminal positions	AAG110-001
terminal	secondary terminal length	AAG099-001
terminal	small terminal type	AAJ032-001
terminal	terminal array type	AAJ033-001
terminal	terminal breadth	AAF338-001
terminal	terminal circle diameter	AAG004-001
terminal	terminal connection type	AAF435-001
terminal	terminal count	AAD145-001
terminal	terminal cross-section shape	AAF376-001
terminal	terminal diameter	AAE023-005
terminal	terminal diameter	AAG009-001
terminal	terminal diameter	AAG010-001
terminal	terminal diameter	AAG011-001
terminal	terminal emergence	AAG041-001
	dimension	
terminal	terminal emergence height	AAG040-001
terminal	terminal exit position non-	AAF346-001
	SMD	
terminal	terminal exit position SMD	AAF345-001
terminal	terminal identifier	AAF357-001
terminal	terminal length	AAE072-005
terminal	terminal length	AAG029-001
terminal	terminal length	AAG030-001
terminal	terminal length	AAG031-001
terminal	terminal length	AAG032-001
terminal	terminal length	AAG033-001
terminal	terminal length	AAG034-001
terminal	terminal length	AAG077-001
terminal	terminal length	AAG111-001
terminal	terminal length	AAG129-001
terminal	terminal length beside	AAF053-005
	housing	
terminal	terminal material	AAE634-005
terminal	terminal pattern	AAG107-001
terminal	terminal pitch	AAE024-005
terminal	terminal placement	AAE008-005
terminal	terminal position code	AAG056-001
terminal	terminal reference position	AAG044-001
terminal	terminal reference position	AAG045-001
terminal	terminal reference position	AAG108-001
terminal	terminal reference position	AAG112-001
terminal	terminal reference position	AAG113-001
terminal	terminal row spacing	AAG053-001
terminal	terminal row spacing	AAG080-001
terminal	terminal row spacing	AAG087-001
terminal	terminal row splay	AAG088-001
terminal	terminal seating angle	AAG052-001
terminal	terminal shape	AAE007-005
terminal	terminal shape code	AAG058-001
terminal	terminal shape non-SMD	AAF347-001
terminal	terminal shape SMD	AAF348-001
terminal	terminal spacing	AAG017-001
terminal	terminal thickness	AAF339-001
terminal	terminal thickness	AAG012-001
terminal	terminal thread	AAG097-001
terminal	terminal thread diameter	AAG094-002
terminal	terminal type	AAJ031-001
terminal	terminal variant code	AAG054-001
terminal	terminal width	AAG008-001
terminal	terminal width	AAG076-001
terminals	number of potential terminals	AAG037-001
terminals	number of terminals	AAE139-005
terminals	number of terminals	AAE754-005
terminals	quantity of missing terminals	AAG038-001
terminal-to-	terminal-to-contact angle	AAE352-005
contact		
termination	actual quantity of termination	AAG059-001
termination	termination count sequence	AAG072-001
termination	termination identifier	AAD012-001
termination	termination number	AAD012-001

keyword	full preferred name	identifier
termination	termination style	AA 1037-001
test	die test level code	AAD008-001
test	stability after test	AAF097-005
test	stability test	AAF096-005
test	test flow	AAD132-001
test	test maturity code	AAD154-001
test	test name	AAD082-001
test	test options	AAD134-001
test	test procedure description	AAD060-001
test	test reliability code	AAD153-001
test	test temperatures	AAD133-001
test	test voltage coefficient	AAF369-001
test the recol	test voltage minimum	AAF251-005
Inermai	voltage	AAE369-005
thermal	thermal resistance	AAE688-005
thermal	thermal resistance type	AAE689-005
thermal	thermal sensitivity index	AAE616-005
	B25/75	
thermal	thermal sensitivity index B25/85	AAE132-005
thermal	thermal sensitivity tolerance	AAF282-005
thermal	thermal time constant	AAE131-005
thermal	thermal time-constant	AAJ073-001
	(power)	
thermistor	NTC thermistor type	AAJ004-001
thermistor	thermistor current	AAE625-005
thermistor	thermistor type	AAE126-005
thickness	card thickness	AAJ040-001
thickness	die thickness	AAJ040-001
thickness	flange thickness	AAD072-001
thickness	lead thickness	AAG019-001
thickness	package thickness	AAG003-001
thickness	printed board thickness	AAE362-005
thickness	shoulder thickness	AAG006-001
thickness	terminal thickness	AAF339-001
thickness	terminal thickness	AAG012-001
thickness	thickness	AAD072-001
thickness	thickness tolerance	AAD118-001
thickness	wafer thickness	AAD072-001
thread	stud thread	AAG096-001
thread	stud thread diameter	AAG093-002
thread	terminal thread	AAG097-001
threshold	ante source threshold	AAG094-002
linesholu	voltage	AAE304-005
threshold	negative-going threshold	AAF209-005
threshold	positive-going threshold	AAF208-005
thvristor	thyristor function	AAE743-005
tie-point	tie point temperature	AAE326-005
tie-point	tie-point distance	AAE937-005
time	access time	AAE720-005
time	access time from address	AAJ091-001
time	access time from CAS	AAE721-005
time	access time from clock	AAJ092-001
time	access time from RAS	AAE720-005
time	access time from RAS	AAJ095-001
time	address hold time	AAJ099-001
time	address set-up time	AAJ098-001
time	burst-mode avela time	AAE930-005
time	carrier storage time	AAF055-005
time	charge time	AAF943-005
time	clock hold time	AAJ103-001
time	clock set-up time	AAJ102-001
time	commutated turn-off time	AAE747-005
time	delay (off) time	AAE981-005
time	delay (off) time	AAF055-005
time	delay (on) time	AAE980-005
time	delay (on) time	AAF056-005

keyword	full preferred name	identifier
time	delay time	AAE231-005
time	delay time	AAE543-005
time	delay time	AAF056-005
time	duration	AAE028-005
time	fall time	AAE746-005
time	fall time	AAE977-005
time	fall time	AAF057-005
time	fall time	AAE904-005
time	fuse pre-arcing time	AAJ034-001
time	fusing time	AAJ049-001
time	HIGH to LOW delay time	AAE233-005
time	time	AAE233-005
time	HIGH to LOW transition time	AAE235-005
time	hold time	AAF213-005
time	input hold time	AAJ101-001
time	input set-up time	AAJ100-001
time	LOW to HIGH delay time	AAE237-005
time	LOW to HIGH propagation time	AAE237-005
time	LOW to HIGH transition time	AAE238-005
time	mechanical time constant	AAE187-005
time	operate time	AAE923-005
time	output data-valid time	AAF232-005
time	output disable time	AAF215-005
time	output enable time	AAF214-005
time	output fall time	AAE235-005
time	output hold time	AAJ104-001
time	output rise time	AAE238-005
time	phase delay time	AAE544-005
time	random read/write cycle time	AAJ094-001
time	recovery time	AAF219-005
time	refresh time	AAF331-006
time	refresh time interval	AAF331-006
time	release time	AAE924-005
time	removal time	AAF219-005
time	reverse recovery time	AAE281-005
time	rise time	AAF301-005
time	rise time	AAE970-005
time	rise time	AAF225-005
time	settling time	AAE168-005
time	set-up time	AAF212-005
time	switching time	AAE235-005
time	switching time	AAE238-005
time	thermal time constant	AAE131-005
time	time constant	AAE746-005
time	time constant (of capacitor)	AAE066-005
time	time t_1	AAF312-005
time	time t_2	AAF313-005
time	total response time	AAF168-005
time	total reverse recovery time	AAE306-005
time	transition time	AAJ105-001
time	turn-off time	AAE553-005
time	turn-off time	AAE847-005
time	turn-off time	AAE979-005
time	turn-off time	AAF059-005
time	turn-on time	AAE554-005
time	turn-on time	AAE846-005
time	turn-on time	AAE978-005
time	turn-on time	AAF060-005
time	virtual front time	AAE332-005
time	virtual time to half-value	AAE333-005
time-constant	tnermal time-constant (power)	AAJ073-001
tolerance	B_25/85 tolerance	AAF282-005
tolerance	breakdown voltage tolerance	AAJ083-001
tolerance	bump height tolerance	AAD147-001
tolerance	capacitance lower tolerance	AAE269-001
tolerance	capacitance lower tolerance (%)	AAE018-001
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keyword	full preferred name	identifier
tolerance	capacitance tolerance	AAE071-005
tolerance	capacitance upper tolerance	AAE268-001
tolerance	capacitance upper tolerance	AAE047-001
	(%)	
tolerance	ganging tolerance	AAE146-005
tolerance	Inductance tolerance	AAJ077-001
tolerance		AAJU76-001
loierance	tolerance	AAF440-001
tolerance	negative resistance tolerance	AAF452-001
tolerance	negative tolerance	AAF444-001
tolerance	percentage tolerance	AAF443-001
tolerance	positive capacitance	AAF449-001
	tolerance	
tolerance	positive resistance tolerance	AAF453-001
tolerance	positive tolerance	AAF445-001
tolerance	resistance tolerance	AAF100-005
tolerance	size tolerance	AAD117-001
tolerance	symmetric capacitance	AAF447-001
	tolerance	
tolerance	symmetric resistance	AAF451-001
tolerance	symmetric tolerance	AAF443-001
tolerance	TCR tolerance	AAJ013-001
tolerance	thermal sensitivity tolerance	AAE282-005
tolerance	thickness tolerance	AAD118-001
tolerance	tolerance of TC of resistance	AAJ013-001
toleranced	toleranced capacitance	AAF462-001
toleranced	toleranced resistance	AAF463-001
toleranced	toleranced values	AAF442-001
tool	tool type	AAF466-001
torque	breakdown torque	AAE201-005
torque	holding torgue	AAE207-005
torque	max load torque	AAE191-005
torque	max working torque	AAE191-005
torque	maximum work torque	AAE201-005
torque	pull-in torque	AAE202-005
torque	pull-out torque	AAE201-005
torque	rated torque	AAE191-005
torque	rotation torque	AAJ015-001
torque	starting torque	AAE196-005
torque	starting torque	AAE199-005
torque	torque	AAE192-005
torus	major radius of torus	AAF421-001
torus	minor radius of torus	AAF422-001
total	specific total loss	AAF300-005
total	total loss volume density	AAF300-005
total	total mechanical rotation	AAE173-005
total	total power loss	AAE//5-005
total	total radiant output power	AAF065-005
total	total response time	AAF168-005
traiaeterr	trainatory of motion	AAE300-005
trapectory	trapeduoor attenuation	AAE179-005
transducer		AAE007-003
transfor	current transfer ratio	AAE005-000
transfer	difference in transfer	AAE717-005
liansiei	impedance	AAL/11-003
transfer	transfer admittance	AAE396-005
transfer	transfer capacitance	AAE390-005
transfer	transfer capacitance	AAE421-005
transfer	transfer conductance	AAE656-005
transformer	power transformer	AAF098-005
	application	
transformer	signal transformer type	AAJ075-001
transformer	transformer model	AAE167-005
transient	non-repetitive transient	AAE298-005
	current	
transistor	transistor package	AAE637-005
transistor	transistor polarity	AAE638-005
transistor	transistor technology	AAE401-005

keyword	full preferred name	identifier
transition	HIGH to LOW transition time	AAE235-005
transition	LOW to HIGH transition time	AAE238-005
transition	transition frequency	AAE425-005
transition	transition time	AAJ105-001
transmission	colour TV transmission	AAE442-005
transmission	glass transmission	AAE596-005
transmission	light transmission	AAE596-005
travel	angular travel	AAJ066-001
travel	differential travel	AAE869-005
travel	travel	AAF132-005
travel	travel	AAJ065-001
travel	travel in switching distance	AAE869-005
trigger	cathode-gate trigger voltage	AAE750-005
trigger	gate trigger current	AAE732-005
trigger	gate trigger voltage	AAE742-005
trip	trip ourront	AAE124-005
triple	composite triple best	AAE130-005
tube	tube size (cm)	AAE595-005
tube	tube size (inch)	AAE233-005
tube	tube socket type	AA.1029-001
tube	tube type	AAE696-005
turn-off	commutated turn-off time	AAE747-005
turn-off	turn-off time	AAE553-005
turn-off	turn-off time	AAE847-005
turn-off	turn-off time	AAE979-005
turn-off	turn-off time	AAF059-005
turn-on	turn-on time	AAE554-005
turn-on	turn-on time	AAE846-005
turn-on	turn-on time	AAE978-005
turn-on	turn-on time	AAF060-005
IV ture e	colour IV transmission	AAE442-005
type	peripheral type	AAF335-005
type	temperature type	AAF334-005
type	thermal resistance type	AAE689-005
UI	Ul flammability	AAF126-005
under	contact length under housing	AAE363-005
underfill	underfill	AAD126-001
unilateral	unilateral power gain	AAE713-005
unit	drive unit type	AAE005-006
units	geometric units	AAD115-001
unity	small-signal unity gain	AAF166-005
unity-gain	unity-gain frequency	AAF166-005
unprogrammed	unprogrammed state	AAF235-005
upper	capacitance upper tolerance	AAE268-001
upper	(%)	AAE047-001
unner	diode upper capacitance	AAE303-005
upper	spectral response upper limit	AAE574-005
upper	upper frequency	AAE156-005
upper	upper rated frequency	AAE339-005
useful	useful screen horizontal	AAE593-005
useful	useful screen vertical	AAE594-005
value	absolute value of admittance	AAF459-001
value	absolute value of impedance	AAF456-001
value	B_25/75 value	AAE616-005
value	B_25/85 Value	AAE132-005
value	collector current peak value	AAE407-005
value		AAF361-001
value	normal average value	AAE365-001
value	Poisson expectation value	AAF368-001
value	Poisson variance value	AAF367-001
values	beamwidth between 50 %	AAE558-005
	values	
values	toleranced values	AAF442-001
variability	supply variability	AAD031-001
variable	number of variable elements	AAE172-005
variable	variable capacitor type	AAJU02-001

keyword	full preferred name	identifier
variable	variable inductor type	AAJ078-001
variance	Poisson variance value	AAF367-001
variant	body variant code	AAG055-001
variant	terminal variant code	AAG054-001
varistor	non-rep varistor peak current	AAE298-005
varistor	varistor capacitance	AAE429-005
varistor	varistor voltage at 1 mA	AAE334-005
variation	dio vorsion	
version		AAD003-001
vertex		AAD028-001
vertex	vertex x-coordinate	AAD029-001
vertex	vertex y-coordinate	AAD030-001
vertical	useful screen vertical	AAE594-005
vertical	vertical resolution	AAF205-005
vertices	number of polygon vertices	AAD027-001
view	geometric view	AAD144-001
view	project view code	AAF392-001
view	reference view	AAF356-001
viewing	preferred viewing direction	AAE991-005
viewing	viewing angle	AAE993-005
viewing	viewing area height	AAE855-005
viewing	viewing area length	AAE854-005
vicenity		AAE225 005
virginity	virginity state	AAF235-005
virtual	junction temperature	AAE271-005
virtual	virtual front time	AAE332-005
virtual	virtual junction stress temper	AAF275-002
virtual	virtual junction temperature	AAE337-005
virtual	virtual time to half-value	AAE333-005
voltage	ac voltage	AAE045-005
voltage	anode voltage	AAE590-005
voltage	anode voltage limiting	AAE315-005
voltage	anode-gate to anode voltage	AAE751-005
voltago	haso omittor saturation	AAE114 005
voltage		AAI 114-005
voltage	base-emitter voltage	AAE427-005
voltage	preakback voltage	AAE726-005
voltage	breakdown voltage	AAF302-005
voltage	breakdown voltage tolerance	AAJ083-001
voltage	breakover voltage	AAE725-005
voltage	category voltage	AAJ053-001
voltage	cathode voltage	AAE591-005
voltage	cathode voltage for cut-off	AAE591-005
voltage	cathode voltage for cut-off	AAE603-005
voltage	cathode-gate trigger voltage	AAE750-005
voltage	clamping voltage	AAE313-005
voltago	collector base voltage	AAE410 005
voltage		AAE413-005
voltage		AAE417-005
	V_CBO	
voltage	collector-emitter breakdown	AAF066-005
	voltage	
voltage	collector-emitter peak voltage	AAE415-005
voltage	collector-emitter sat voltage	AAE416-005
voltage	collector-emitter sat voltage	AAE551-005
voltage	collector-emitter voltage	AAE412-005
voltage	collector-emitter voltage	AAE413-005
	V CE	
voltage	collector-emitter voltage	AAE414-005
ronago	V CF	
voltage	collector-emitter voltage	AAE113-005
Voltage	V CE	
voltago	ommon mode input veltage	
voltage	common-mode input voltage	AAF157-005
voltage	common-mode input voltage	AAF 157-005
	range	
voltage	connector rated voltage	AAJ042-001
voltage	contact voltage (ac)	AAE512-005
voltage	contact voltage (dc)	AAF107-005
voltage	control grid voltage	AAE578-005
voltage	crest working input voltage	AAE292-005
voltage	crest working reverse voltage	AAE299-005
voltage	data retention voltage	AAE333_005
voltage	de breakdown voltage	A 1022 004
voltage	de europhy veltere	
voltage	uc supply voltage	AAEU80-005

keyword	full preferred name	identifier
voltage	dc supply voltage	AAE690-005
voltage	dc voltage component	AAE843-005
voltage	difference base-emitter	AAE418-005
voltage	differential voltage change	AAE644-005
voltage	drain-gate voltage	AAE375-005
voltage	drain-source voltage	AAE376-005
voltage	drain-source voltage limit	AAE377-005
voltage	drain-substrate voltage	AAE378-005
voltage	drain-substrate voltage limit	AAE379-005
voltage	drive voltage	AAE992-005
voltage	driving voltage	AAE184-005
voltage	emitter-base voltage V_EBO	AAF112-005
voltage	energising voltage (ac)	AAE916-005
voltage	energising voltage (dc)	AAE915-005
voltage	voltage	AAE360-005
voltage	equivalent noise voltage	AAE380-005
voltage	final accelerator voltage	AAE590-005
voltage	focusing voltage	AAE585-005
voltage	focusing voltage	AAE586-005
voltage	focusing voltage limiting	AAF314-005
voltage	forward voltage	AAE279-005
voltage	forward voltage	AAE499-005
voltage	gate trigger voltage	AAE742-005
voltage	gate-source cut-off voltage	AAE386-005
voltage	gate-source threshold	AAE384-005
voltage	aate-source voltage	AAE381-005
voltage	gate-source voltage	AAE383-005
lonago	difference	
voltage	gate-source voltage limit	AAF118-005
voltage	grid 1 voltage for cut-off	AAE578-005
voltage	grid 2 voltage	AAF206-005
voltage	grid 2 voltage for cut-off	AAE584-005
voltage	heater voltage	AAE579-005
voltage	HIGH-level input voltage	AAE/18-005
voltage	HIGH-level output voltage	AAE092-005
voltage	HIGH-state input voltage	AAE093-005
voltage	HIGH-state output voltage	AAE092-005
voltage	HIGH-state output voltage ref	AAE093-005
voltage	input offset voltage	AAF155-005
voltage	input voltage	AAE163-005
voltage	input voltage	AAE224-005
voltage	input voltage HIGH	AAE718-005
voltage	input voltage limit	AAE210-005
voltage	input voltage LOW	AAE/19-005
voltage	input voltage peak-to-peak	AAE288-005
voltage	isolation voltage min	AAE513-005
voltage	large-signal voltage min	AAE159-005
voltage	limiting contact voltage	AAE513-005
voltage	limiting element voltage (ac)	AAF281-005
voltage	limiting element voltage (dc)	AAE118-005
voltage	limiting voltage (ac)	AAF281-005
voltage	limiting voltage (dc)	AAE118-005
voltage	LOW-level input voltage	AAE719-005
voltage	LOW-level output voltage	AAE094-005
voltage	LOW-level output voltage	AAE097-005
voltage	LOW-state input voltage	AAE/19-005
voltage	LOW-state output voltage	AAE097-005
voltage	max change rate output	AAE162-005
	voltage	AAE040.005
voltage	max peak voltage at I_class	AAE319-005
voltage	maximum clamping voltage	AAE319-005
voltage	maximum noise voltage	AAE330-005
voltage	minimum breakdown voltage	AAF251-005
, shugo	minian sreakdown voltage	

keyword	full preferred name	identifier
voltage	no-load output voltage	AAE164-005
voltage	nominal voltage	AAE519-005
voltage	non-repetitive peak reverse	AAE301-005
voltage	off-state voltage	AAE738-005
voltage	off-state voltage	AAE737-005
voltage	on-state voltage	AAE279-005
voltage	open-circuit voltage	AAE529-005
voltage	operating voltage	AAE992-005
voltage	operating voltage	AAE842-005
voltage	output voltage	AAE169-005
voltage	output voltage	AAE698-005
voltage	output voltage	AAE726-005
voltage	output voltage EHT supply	AAE228-005
voltage	output voltage HIGH	AAE092-005
voltage	output voltage HIGH	AAE093-005
voltage	output voltage LOW	AAE094-005
voltage	output voltage peak-to-peak	AAF158-005
voltage	output voltage swing	AAF158-005
voltage	programming voltage	AAF238-005
voltage	rate of rise commutating	AAE741-005
voltago	voltage	
voltage	rate of rise of off-state	AAE727-005
Voltage	voltage	AAE140-000
voltage	rated input voltage (ac)	AAE184-005
voltage	rated input voltage (dc)	AAE186-005
voltage	rated input voltage (pulse)	AAE204-005
voltage	rated operational voltage (ac)	AAE512-005
voltage	rated operational voltage (dc)	AAF107-005
voltage	rated voltage	AAJ010-001
voltage	rated voltage (ac)	AAJ060-001
voltage	rated voltage (dc)	AAE043-005
voltage	reference voltage	AAE324-005
voltage	regulation voltage	AAE324-005
voltage	release voltage (ac)	AAF050-005
voltage	release voltage (dc)	AAF129-005
voltage	repetitive peak input voltage	AAE290-005
voltage	repetitive peak off-state	AAE739-005
voltage	repetitive peak reverse	AAE300-005
voltage	voltage	AAE 300-003
voltage	reverse voltage	AAE277-005
voltage	reverse voltage	AAE335-005
voltage	rms input voltage	AAE291-005
voltage	source-substrate voltage	AAE388-005
voltage	source-substrate voltage limit	AAE387-005
voltage		AAE2//-005
voltage	supply voltage	AAF163-005
voltage	supply voltage	AAE690-005
voltage	supply voltage	AAE102-005
voltage	supply voltage	AAE547-005
voltage	supply voltage limit	AAE086-005
voltage	supply voltage rejection ratio	AAF170-005
voltage	supply voltage sensitivity	AAF161-005
voltage	surge voltage	AAJU54-001
voltage	voltage	AAF 130-005
voltage	test voltage coefficient	AAF369-001
voltage	test voltage minimum	AAF251-005
voltage	thermal drift gate-source	AAE389-005
	voltage	
voltage	varistor voltage at 1 mA	AAE334-005
voltage	voltage (ac)	AAE150-005
voltage	voltage (dc)	AAEU 13-005
voltage	voltage at class current (IEC)	AAE319-005
voltage	voltage drop	AAF123-005
	F	

keyword	full preferred name	identifier
voltage	voltage during charge	AAE941-005
voltage	voltage handling capacity	AAE338-005
voltage	voltage responsivity	AAE571-005
voltage	voltage standing wave ratio	AAJ041-001
voltage	voltage V_1	AAE961-005
voltage	voltage V_2	AAE962-005
voltage	withstanding voltage	AAJ085-001
voltage	working reverse voltage	AAE299-005
voltage	working voltage	AAE324-005
voltage	working voltage	AAF258-005
volume	total loss volume density	AAF300-005
water	water size	AAD011-001
water	water thickness	AAD072-001
wave	input standing wave ratio	AAE974-005
wave	output standing wave ratio	AAE975-005
wave		AAJU4 1-00 1
wavelength	peak response wavelength	AAE556-005
wavelength	yeak-response wavelength	AAE566 005
wavelength	wavelength at peak response	AAE568 005
wavelength	wavelength at peak response	AAE560-005
wedge	wedge x-size	AAF423-003
wedge	wedge v-size	AAF424-001
wedge	wedge z-size	AAF425-001
width	address bus width	AAF226-005
width	data bus width	AAF227-005
width	die width	AAD071-001
width	fiducial width	AAD158-001
width	flange overall width	AAG086-001
width	flange width	AAG114-001
width	hexagon width	AAG131-001
width	I/O bus width	AAF328-005
width	index width	AAG027-001
width	lead width	AAG008-001
width	lead width	AAG076-001
width	lid width	AAG082-001
width	mounted width	AAG036-001
width	overall width	AAG024-001
width	package width	AAG016-001
width	package width zone	AAG021-001
width	pad width	AAD026-001
width	pulse width HIGH	AAF216-005
width	pulse width LOW	AAF217-005
width	shoulder width	AAG005-001
width	slug width	AAG103-001
width	substrate width	AAE871-005
width	tag hole width	AAG117-001
width	terminal width	AAG008-001
width	terminal width	AAG076-001
winding	winning configuration	AAE151-005
window		AAF210-005
withdrowol	wite application	AAF202-005
withstanding	withdrawar force	AAI 040-003
word		AA5000-001
word	word length	AAF459-005
word	word length	AAE459-005
words	number of words	AAE474-005
work	maximum work torque	AAE201-005
working	crest working input voltage	AAE292-005
working	crest working reverse voltage	AAE299-005
working	max working torque	AAE191-005
working	peak working current	AAE317-005
working	sensor working principle	AAE893-005
working	working current	AAE316-005
working	working current	AAE500-005
working	working peak forward current	AAE296-005
working	working principle	AAE877-005
working	working reverse voltage	AAE299-005
working	working voltage	AAE324-005

keyword	full preferred name	identifier
working	working voltage	AAF258-005
x-axis	angle axis to x-axis	AAF411-001
x-axis	centre of gravity (x-axis)	AAF362-001
x-axis	number of pitches (x-axis)	AAF374-001
x-axis	offset (x-axis)	AAF341-001
x-axis	pitch (x-axis)	AAF321-001
x-coor	x-coor preferred mounting position	AAF401-001
x-coor	x-coor preferred mounting position	AAF402-001
x-coordinate	x-coordinate of centre	AAF418-001
x-coordinate	x-coordinate of the reference point	AAF393-001
x-coordinate	x-coordinate position location	AAF406-001
x-position	die centre x-position	AAD129-001
x-size	wedge x-size	AAF423-001
y/x	mounting deviation y/x	AAF405-001
y/z	mounting deviation y/z	AAF404-001
y-axis	angle axis to y-axis	AAF412-001
y-axis	centre of gravity (y-axis)	AAF363-001
y-axis	number of pitches (y-axis)	AAF375-001
y-axis	offset (y-axis)	AAF340-001
y-axis	pitch (y-axis)	AAF322-001
y-coordinate	y-coordinate of centre	AAF419-001
y-coordinate	y-coordinate of the reference point	AAF394-001
y-coordinate	y-coordinate position location	AAF407-001
yield	die yield	AAD009-001
yield	die yield code	AAD095-001
y-position	die centre y-position	AAD130-001
y-size	wedge y-size	AAF424-001
z-axis	angle axis to z-axis	AAF413-001
z-coor	z-coor preferred mounting position	AAF403-001
z-coordinate	z-coordinate of centre	AAF420-001
z-coordinate	z-coordinate of the reference point	AAF395-001
z-coordinate	z-coordinate position location	AAF408-001
zone	flange zone height	AAG018-001
zone	height zone	AAG124-001
zone	package diameter zone	AAG022-001
zone	package height zone	AAG092-001
zone	package length zone	AAG020-001
zone	package width zone	AAG021-001
z-size	wedge z-size	AAF425-001

Annex G (informative)

Outlines

G.1 Outline style

The first level of classification has a code formed from the two-letter outline style code as in Table G.1 below (derived from IEC 60191-4).

Code	Name	Description
BD	Bead	A package in spherical or almost spherical shape
сс	Chip carrier	A low-profile package whose chip cavity or mounting area occupies a major portion of the package area and whose terminals consist of metal pad surfaces (on the leadless version) or leads formed around the sides and under the package or out from the package (on leaded versions).
		NOTE 1 The body of the chip carrier, usually square or of low aspect ratio, is similar to that of a flatpack package
		NOTE 2 When leads extend out from the package, the preferred name is flatpack (see FP)
СР	Clamped	Package, for high current devices, in the form of a cylinder with a plane, circular, high current terminal at each end, intended to be clamped against or between two busbars acting as heatsinks.
СҮ	Cylinder/can	Generally cylindrical package. It usually has terminals that exit from one end, parallel to the central axis of the package and is mounted perpendicular to the seating plane.
DB	Disc/Button	Low-profile package that looks like a disk or button. It usually has terminals that exit radially from the periphery of the package like the spokes of a wheel or from the disk centre. Terminals may be formed into a variety of shapes.
FM	Flange-mount	Package that has a flange-mounted heat sink that is an integral part of the package and provides mechanical mounting to a packaging interconnect structure or cold plate. It usually has terminals that exit from, or attach to, any surface of the package in a variety of forms.
FO	Fibre-optic	Microcircuit package that has one or more fibre-optic connectors. Its terminals may exit from, or attach to, any surface of the package and may be formed in a variety of lead shapes.
		NOTE The fibre-optic connectors are considered to be terminals.
FP	Flatpack	Low-profile package whose leads project parallel to, and are designed primarily to be attached parallel to, the seating plane.
		NOTE 1 The leads originate typically at either two or four sides of a package.
		NOTE 2 The body of the flatpack is similar to that of a chip carrier.
		NOTE 3 Leads may be formed generally away from the package body. If the leads are formed back towards the package body, the correct term is "chip carrier" (see CC).
GA	Grid array	Low-profile package whose terminals are located on one surface in a matrix of at least three rows and three columns; terminals may be missing from some row-column intersections.
IL	In-line	Rectangular package having one row or two or more parallel rows of leads designed primarily for insertion mounting perpendicular to the seating plane.
		NOTE 1 The leads may all emerge from a single side or from two parallel sides with the leads formed to produce parallel rows.
		NOTE 2 The preferred code is "IP".

Table G.1 – Outline style codes

IP	In-line	Rectangular package having one row or two or more parallel rows of leads designed primarily for insertion mounting perpendicular to the seating plane.		
		NOTE 1 The leads may all emerge from a single side or from two parallel sides with the leads formed to produce parallel rows.		
		NOTE 2 Restrict to DIP/SIP/ZIP		
LF	Long-form	Cylindrical or elliptical tubular package having terminal end-caps or axial leads. Its long-form body is usually mounted parallel to the mounting plane.		
МА	Microelectronic	Assembly of unpackaged (uncased) microcircuits and/or packaged microcircuits, which may also include discrete devices, so constructed on a packaging interconnect structure that for the purpose of specification, testing, commerce, and maintenance, the package is considered to be an indivisible component. The passive and/or active discrete and microelectronic devices may be mounted on either one or two sides of the packaging interconnect structure, and the external terminals usually exit from one side of the assembly. A variety of package sizes, shapes, and external terminal forms are possible.		
MP	Power module	Package designed for housing two or more power semiconductor chips having a mounting base which is not a terminal, and several screw and/or fast-on or pin terminals on the surface opposite the mounting base		
MW	Microwave	Package specially designed to provide device operation at microwave frequencies.		
		NOTE "Specially designed" includes, but is not limited to, microwave cavities or terminals with controlled common-element impedance.		
PF	Press-fit	Round or elliptical package whose mechanical mounting area is pressed into the packaging interconnect structure or cold plate for purposes of thermal and electrical connection. Its external terminals may take on a variety of forms.		
РМ	Post mount	Package whose mechanical mounting device is a threaded stud, threaded hole, or post for mounting to the packaging and interconnect structure or cold plate. A variety of package shapes and external terminal forms are possible.		
RC?	Rectangular	A package whose body is in the form of a rectangular box		
SO*	Small outline	Low-profile rectangular surface-mount component package. Its chip (die) is bonded to an inner land contact area, primarily a lead frame. External terminals exit parallel to the seating plane on two opposite sides of the moulded, flat package.		
		NOTE 1 The lead form is usually gull wing but other lead forms are possible.		
		NOTE 2 This term is deprecated in favour of "chip carrier" (see CC) or "flatpack" (see FP), depending on the lead form.		
SS	Special-shape	Miniature component package whose devices require a special shape. Its terminals may project from one or more surfaces		
UC	Uncased	Uncased, microminiature chip (die). Usually the chip has bonding pads, bumps, etc., that are bonded to pads or lands on a lead-frame, tape, or substrate.		
VP	Vertical surface mount	Surface-mount package intended to be mounted perpendicular to the seating plane. Terminals are located in one or more parallel rows. The package may include supporting posts (for insertion through the seating surface) or pedestals (for attachment to the seating surface).		
XA- XZ	Non-defined family	Electronic device package that does not fall under any of the other IEC-approved package-style families.		
		NOTE These vendor- or user-specified package-outline-style codes are temporary and should later be replaced with an IEC-approved code. They may be reused and so have no unique, fixed meanings.		
* Ind (ex	 Industry practice sometimes uses "P" for "package" in the location normally occupied by this field (except that there is no preceding hyphen) for example SOP. 			

G.2 Terminal position

The classification code for the second level is the single letter code for the terminal disposition, as in Table G.2 below (derived from IEC 60191-4).

Code	Name	Description	
A	Axial	Terminals extend from both ends in the direction of the major axis of a cylindrical or elliptical package	
В	Bottom	Terminals extend from the bottom of the package	
D	Double	Terminals are on opposite sides of a square or rectangular package or located in two parallel rows	
Е	End	Terminals are package endcaps having a circular or elliptical cross-section	
L	Lateral	Terminals are on the four sides of a square or rectangular package. The preferred name is "quad", code ${\bf Q}$	
Ρ	Perpendicular	Terminals are perpendicular to the seating plane on a square or rectangular package. Restrict to PGA family	
Q	Quad	Terminals are on four sides of a square or rectangular package or located in four parallel rows	
R	Radial	Terminals extended radially from the periphery of a cylindrical or spherical package	
S	Single	Terminals are on one surface of a square or rectangular package in a single row	
т	Triple	Terminals are on three sides of a square or rectangular package	
U	Upper	Terminals are perpendicular to and opposite the seating plane, and are on one surface of a package	
х	Other	Terminal positions are other than those described	
Z	Zigzag	Terminals are on one surface of a square or rectangular package arranged in a staggered configuration	
1) These descriptions assume the seating plane in the bottom of the package.			
2) Reference	ce to package shape	e does not take into account flanges, notches or other irregularities.	

Table G.2 – Terminal position codes

G.3 Terminal form

The classification code for the third level is formed by the single-letter terminal form code from Table G.3 below (derived from IEC 60191-4).

Code	Form	Description
А	Screw	A threaded hole for a screw on the top of the package
В	Butt or ball	A short lead or solder ball intended for attachment perpendicular to the land structure
С	"C" bend	A "C"-shaped compliant or non-compliant lead bent down and under the body of the package
D	Solder lug	A lug terminal on the package
Е	Fast-on plug	A fast-on plug extending from the body of the package
F	Flat	A compliant or non-compliant, non-formed flat lead that extends away from the body of the package
G	Gull-wing	A compliant lead bent down from the body of the package with a foot at the end pointing away from the package
Н	High-current cable	A lug terminal at the end of a flexible lead
I	Insulated	A flat lead formed by depositing a thin conductor on a supporting insulating film
J	"J" bend	A "J"-shaped compliant lead bent down and back under the body of the package
L	"L" bend	An "L"-shaped compliant lead intended for surface mounting
N	No lead	Metallized terminal pads located on the body of the package
P*	Pin or peg	A tempered lead extending from the body of the package and intended for attachment to a plated through-hole in the land structure
Q	Quik-connect	A tab-like terminal extending from the body of the package
R	Wraparound	A metallized non-compliant terminal wrapped around the package body
S	"S" bend	An "S"-shaped compliant lead bent under the body of the package
Т	Through-hole	A terminal with flat or V-shaped cross-section intended for attachment to a plated through-hole in the land structure
U	Inverted "J"	A "J"-shaped compliant or non-compliant lead bent down from the body of the package with the curved end pointing away from the package
W	Wire	An untempered wire lead extending from the body of the package
х	Other	A lead form or terminal shape other than those defined
Y	Screw	A threaded hole
* Industr field (e	y practice sometime xcept that there is	s uses "P" for "package" in the location normally occupied by this s no preceding hyphen) for example SOP.

 Table G.3 – Terminal form codes

G.4 Terminal variants

The classification code for the fourth level is formed by the four-character terminal variant code from Table G.4 below.

Code	Description
Т000	Standard form
T001	Straight leads
T002	Formed leads
T003	Leads on circle
T004	Straight leads in-line
T005	Formed leads in-line
T006	Leads on square grid
T007	Offset leads
T008	Straight tags
T009	Round pins
T010	Rectangular pins
T011	Straight flat leads
T012	Solder balls
T013	One fixed tag
T014	Two fixed tags
T015	One lead with tag
T016	Two leads with tag
T017	Three leads with tag
T018	One lead without tag
T019	Strip leads
T020	Multiple leads
T021	Three leads
T022	Two leads, stub and tab
T023	Straight V-section leads

Table G.4 – Terminal variant codes

G.5 Body variants

The classification code for the fifth level is formed by the four-character body variant code from Table G.5 below.

Code	Description
B000	Standard form
B001	Bumped package
B002	Non-bumped package
B003	Plain cylinder
B004	Top-hat package
B005	Clamp-mount
B006	Stud-mount
B007	Cavity up
B008	Cavity down
B009	Non-cavity package (moulded)
B010	Cavity package (ceramic)

Table G.5 – Body variant codes



The IEC would like to offer you the best quality standards possible. To make sure that we continue to meet your needs, your feedback is essential. Would you please take a minute to answer the questions overleaf and fax them to us at +41 22 919 03 00 or mail them to the address below. Thank you!

Customer Service Centre (CSC)

International Electrotechnical Commission 3, rue de Varembé 1211 Genève 20 Switzerland

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Thank you for your contribution to the standards-making process.

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Q1 Please report on ONE STANDARD and ONE STANDARD ONLY . Enter the exact number of the standard: (e.g. 60601-1-1)		Q6	If you ticked NOT AT ALL in Question the reason is: (tick all that apply)	5	
				standard is out of date standard is incomplete standard is too academic	
Q2	Please tell us in what capacity(ies) you bought the standard <i>(tick all that apply</i> I am the/a:	и ⁄).		standard is too academic standard is too superficial title is misleading I made the wrong choice	
	purchasing agent			other	
	librarian				
	researcher				
	design engineer		Q7	Please assess the standard in the	
	safety engineer			following categories, using	
	testing engineer			the numbers: (1) unaccentable	
	marketing specialist			(1) below average,	
	other	•••		(3) average,	
				(4) above average,	
Q3	l work for/in/as a:			(6) not applicable	
	(tick all that apply)				
	manufacturing			timeliness	•••
	consultant			quality of writing	•••
	government			legic of arrangement of contents	•••
	test/certification facility			tables charts graphs figures	•••
	public utility			other	
	education				
	military				
	other		Q8	I read/use the: (tick one)	
Q4	This standard will be used for:			French text only	
.	(tick all that apply)			English text only	۵
				both English and French texts	
	general reference			,	
	product research				
	product design/development		00	Places share any comment on any	
	tenders		Q9	aspect of the IEC that you would like	
	quality assessment	0		us to know:	
	certification				
	technical documentation				•••
	thesis				
	manufacturing				
	other				
05	This standard meets my needs:				
J.	(tick one)				
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	nearly				•••
	fairly well				•••
	exactly	L			

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