



I GENERAL DESCRIPTION

The Swan Model 240 is a single sideband, suppressed carrier transceiver designed specifically for use on the 20-, 40-, and 75-meter amateur radio bands. With the transceive operation, the transmitted signal is automatically tuned to the received frequency. On the 20-meter band operation is upper sideband, on the 40- and 75-meter bands, operation is on lower sideband. Provisions have been included in the transceiver for operation on the other sideband, if desired.

Basic circuitry of the Swan 240 transceiver has been proven in thousands of hours of operation of the popular single band, Swan 100 series of transceivers. Mechanical, electrical, and thermal stability are exceptionally high. Oscillators are voltage regulated and temperature compensated. Suppression of the unwanted sideband is accomplished by means of a high-frequency crystal lattice filter, which is also used to obtain exceptional selectivity in receiving. Nominal bandwidth on transmit and receive is 3 kc.

The Swan transceiver is designed for fixed, portable, or mobile operation when used in conjunction with a suitable power supply. Push-to-talk operation is possible in all installations, and normal operation with two-contact microphones is possible through the function switch. AM transmission, (Single Sideband with Carrier) is accomplished by allowing carrier to be transmitted with the single sideband, and receiver tuning for AM reception is accomplished by zero-beating the received carrier.