

Circuit Technical Description

TRANSMITTER SECTION

Frequency Determining and Stabilizing Circuit :

Q9 functions as a modified Harley type oscillator with the crystal Z3.

Circuits for Suppression of Spurious Radiation :

In addition to inter-stage filtering the output of final Q9 is coupled to the antenna. L1 serves as an antenna loading coil.

Modulation :

The output of DATA IC1 is fed to Q9 through R20.

RECEIVER CIRCUIT

The receiver is a conventional single conversion super heterodyne with the local oscillator controlled L11, C32, and L2, C10, C34 are the antenna tune circuit R47 takes the am output into comparator IC3 pin 7 directed to CPU.

Miscellaneous

IC1 functions as a digital thermometer and as a clock and control.