

TECHNICAL DESCRIPTION

MODEL 18T REMOTE TRANSMITTER

DESCRIPTION

The transmitter is a low-power communication device operating at frequency 318MHz by adjusting the inductive jumper (ANT2). The signal is a digital coding modulated transmission, which transmits data to a receiver. This digital coding provides different patterns by proprietary integrated circuit (U1).

FUNCTION

The digital modulator is employed in the proprietary integrated circuit (U1) and (U2), which sends encoded digital data. The capacitor (C5 and C6) and ceramic resonator (X1) established the clock rate of 4MHz.

The output data from the proprietary integrated circuit (U1) drives a tuned Colpitts power oscillator. The oscillator is a LC oscillator formed by transistor (Q2) and associated components (C7, C8, C9). The inductive jumper (ANT2) controls the frequency of oscillation. The inductive jumper is installed on the PCB as the principle radiating element which is similar to an elementary dipole. Resistor (R21) in conjunction with the base bias circuit (R15) regulates the power output of the transmitter.

The unit operates from a battery of 12V.

Warning: Changes or modifications to this unit not expressly approved by the party responsible of compliance could void the user's authority to operate the equipment.