

TECHNICAL DESCRIPTION

MODEL MFV-300 REMOTE TRANSMITTER

DESCRIPTION

The transmitter is a low-power communication device operating at frequency 300MHz. The signal is a digital-coding modulated transmission which transmitted data to a receiver. This digital coding provides different patterns by selecting DIP switches (SW2).

FUNCTION

The momentary switch (SW1) activates the transmission and the LED (DS1) lights up for indication.

The digital modulator is employed in the proprietary integrated circuit (U1), which sends encoded digital data. Ceramic Resonator (Y1) and Capacitor (C5, C6) established the clock rate of 960KHz.

The output data from the proprietary integrated circuit (U1) drives a tuned Colpitts power oscillator. The oscillator is a LC oscillator formed by transistor (Q3) and associated components (C7, C12, C13, C14). The inductive jumper (ANT2) controls the frequency of oscillation. The inductive jumper is installed on the PCB as the principle radiating element which similar to an elementary dipole. Resistor (R11) in conjunction with the base bias circuit (R14, R15) regulates the power output of the transmitter.

The unit operates from a 12V battery. The transmitter is function with the receiver of FCC ID EF4GRMULTI-CODE.

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.