

TECHNICAL DESCRIPTION

MODEL BR-100 REMOTE TRANSMITTER

DESCRIPTION

The transmitter is a low-power communication device operating at frequency 300, 310, 318 and 389.5 MHz by selecting the "FREQ" switch (SW1). The signal is a digital-coding modulated transmission which transmitted data to a receiver. This digital coding provides different patterns by selecting "CODE" jumpers (J1).

FUNCTION

The momentary switch (SW3) 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 by selection code jumpers. Ceramic Resonator (Y1) and Capacitor (C10, C11) established the clock rate of 4MHz.

The oscillator is an LC oscillator formed by transistor (Q1) and associated components. The frequencies of oscillation are controlled by VC 1 or VC2 or VC3 or VC4. The inductive load L3 is configured on the PCB as the principle radiating element which similar to an elementary dipole. Resistor (R2) in conjunction with the base bias circuit (R1) regulates the power output of the transmitter.

The LED (DS2) acts the torch by press on the switch (SW2). The unit operates from two CR2032 battery of total 6V.

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.