

TECHNICAL DESCRIPTION

DESCRIPTION

The transmitter is a low-power communication device operating at frequency of 433.9MHz by SAW device (Y1). The signal is a digital-coding modulated transmission which transmitted data to a receiver. This digital coding provides different patterns by proprietary IC (U1) and (U2).

FUNCTION

The logic circuit (U4) and its associated components detect the toggle input signal to activate the latter circuitry and causes the transmission.

The digital modulator is employed in the integrated circuit (U1) which sends encoded digital data. Resistor (R5) and Capacitor (C5) established the clock rate of 4MHZ.

The output data from the proprietary IC (U1) drives a tuned Colpitts power oscillator. A high-Q SAW resonator controls frequency of oscillation. The inductive load L2 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 (R8) regulates the power output of the transmitter.

The unit operates from a 12V battery. This voltage is regulated by rectifier D1 and filtered by capacitor (C10A), and the regulator (U3) provide +5V dc for use by all internal circuitry. The transmitter is function with the receiver of FCC ID KUT838R.

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.

ORIGINAL