

**Model 4B838 APPLICATION for FCC****TECHNICAL DESCRIPTION****MODEL 4B838 REMOTE TRANSMITTER****DESCRIPTION**

The transmitter is a low-power communication device operating at frequency 390-440MHZ by tuning the trimmer (CT1). The signal is a digital-coding modulated transmission which transmitted data to a receiver. This digital-coding provides different patterns by proprietary IC (U1).

**FUNCTION**

The momentary switch (S1, S2, S3, S4,) activates the transmission. The LED (DS1) lights up and acts as a forward biased diode which protects the circuit from damage by reversed battery installation.

The digital modulator is employed in the integrated circuit (U1) and (U2) which sends encoded digital data. Resistor (R3) and Capacitor (C3) established the clock rate of 4MHZ

The oscillator is an LC oscillator formed by transistor (Q1) and associated components (C4, C5, C7, C8). The frequencies of oscillation are controlled by CT1. The inductive load L2 is configured on the PCB as the principle radiating element which similar to an elementary dipole. Resistor (R6) in conjunction with the base bias circuit (R7) regulates the power output of the transmitter.

The unit operates from a 12V battery .The transmitter is function with the receiver of FCC ID NBQSCAD, KUT838R