

#### **EXPOSITORY STATEMENT/DESCRIPTION**

The Micro Bandit R/C Transmitter is a crystal controlled low-powered digital transmitter. It consists of one multi-vibrator circuit and one crystal, and passive switch controls. See attached block diagram, TY-F1037.

The multi-vibrator circuit produces the digital baseband modulation that will be modulated onto the carrier. The carrier is produced in combination with the crystal and the N-P-N transistor, Q1. The crystal oscillator circuit/RF amplifier circuit is comprised of X1 (49.86 MHz) and Q1.

The RF signal from the oscillator circuit is modulated by the digital baseband signals at the collector of the RF amplifier stage (Q1). The output of the modulated RF amplifier is coupled to the antenna via C3. The matching circuit consisting of a "pi" circuit comprised of C2, L1, and C1. See attached schematic TY-F1037.

All tuning and verifications are performed by the manufacturer and no external ground is required or used with this transmitter.