

Model: 10007 (Transmitter portion)
Technical Description of Transmitter

The Equipment Under Test (EUT) is a transmitter of a RC system, which is operating at 49.860MHz as dictated by a crystal. The EUT is powered by 1 x 9V Block size battery. The EUT has a power ON/OFF switch and control key.

After switching ON the EUT and the corresponding pitching machine (ie. Receiver), the pitching machine receive the transmission from the bat and then project the plastic ball for baseball practicing. Activation for projecting the plastic ball is determined by selection of the switch to "BAT" position. The circuit of the transmitter comprises of,

1. An Encoding circuit
Consisting: U1 (SCTX2B), control key (F, K1)
2. A RF Oscillator (49.860MHz)
Consisting: Y1 (49.860MHz) , Q1
3. A Filter Network
Consisting: L4, C9, C8, L3
4. A RF Modulator and Amplifier
Consisting: Q2
5. A Power Supply
Consisting: 9VDC (1 x 9V block size battery)

The antenna used:
External, integral antenna.

Antenna Gain: 0dBi
Nominal rated field strength: 70.8dBuV/m at 3m
Maximum allowed field strength of production tolerance: +/- 3dB