

## Technical Description (Transmitter portion)

The Equipment Under Test (EUT) is a transmitter of a RC system, which is operating at 27.145MHz as dictated by a crystal. The EUT is powered by 1 x 3V size AA battery. The EUT has a power ON/OFF switch and control key.

After switching ON the EUT and the corresponding car(ie. Receiver), activating the control key on the EUT can control the car moving forward, backward, left and right. It can charge the receiver by plug in the charging port over the receiver.

**Antenna Type: Integral, external**

**Nominal field strength is 52.1dB $\mu$ V/m @ 3m**

**Production Tolerance of field strength is 49.1 dB $\mu$ V/m to 55.1 dB $\mu$ V/m**

**Antenna gain is 0dBi**

**The circuit of the transmitter mentioned below.**

**1. Control buttons:**

Consists of K1, K2, K3 and K4

**2. Encoding circuit**

Consists of U1(TX2 1435)

**3. Oscillator (27.145MHz):**

Consists of Y1

**4. RF power amplifier and modulator**

Consists of Q1 , Q2 , L2, L3

**5. Power Supply**

Consists of 3VDC (2 x 1.5 sizeAA battery)