

## 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 Block size battery. The EUT has a power ON/OFF switch and control key.

After switching ON the EUT and the corresponding robot(ie. Receiver), activating the control key on the EUT can control the car moving forward, backward, left and right.

**Antenna Type: Integral, external**

**Nominal field strength is 55.4dB $\mu$ V/m @ 3m**

**Production Tolerance of field strength is 52.4 dB $\mu$ V/m to 58.4 dB $\mu$ V/m**

**Antenna gain is 0dBi**

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

- SW1, SW2, SW3 , SW4 and associated circuit act as a Control key.
- TX2S and associated circuit act as a RFIC Encoding circuit.
- Q2 and associated circuit act as an Oscillation circuit.
- Q1, L6 and associated circuit act as a Filter.
- X1 acts as a 27.145 MHz crystal and acts as a system clock.