

## 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 motorcycle (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 51.4dB $\mu$ V/m @ 3m  
Production Tolerance of field strength is 48.4 dB $\mu$ V/m to 54.4 dB $\mu$ V/m  
Antenna gain is 0dBi**

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

- S2, S3, S4, S5 and associated circuit act as a Control key.
- U2(IC-8) and associated circuit act as a RFIC Encoding circuit.
- Q2 and associated circuit act as an Oscillation circuit.
- Q1, L3 and associated circuit act as a Filter.
- X1 acts as a 27.145 MHz crystal and acts as a system clock.