

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 9.0VDC 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.

Antenna Type: Integral, external

Nominal field strength is 56.5dB μ V/m @ 3m

Production Tolerance of field strength is 53.5 dB μ V/m to 59.5 dB μ V/m

Antenna gain is 0dBi

The circuit of the transmitter mentioned below.

- K1, K2, K3 , K4 and associated circuit act as a Control key.
- TX-2B and associated circuit act as a RFIC Coding circuit.
- Q2 and associated circuit act as an Oscillation circuit.
- Q4, L3 and associated circuit act as a Filter.
- X1 acts as a 27.145 MHz crystal and acts as a system clock.