

Technical Description

The Equipment Under Test (EUT) is a portable transmitter of a RC Car operating at 27.145 MHz as dictated by a crystal. The EUT is powered by a 9.0 V DC source (1 x 9.0V battery). The EUT has a left / right control lever and a forward / backward control lever.

After switching ON the EUT and the receiver of the RC Car, activating the control levers on the EUT can control the receiver moving forward, backward left and right directions.

Antenna Type: External, Dedicated Whip Antenna

Antenna Gain: 0dBi

Nominal rated field strength: 58.9dB μ V/m at 3m

Maximum allowed field strength of production tolerance: +/- 3dB

The brief circuit description is listed as below:

- 1) U1 (TX-2) acts as MCU
- 2) L1, T1, C1, C2 and C3 act as Antenna Circuit.
- 2) Y1 & Q1 act as a 27.145MHz Oscillator.
- 3) Q2 acts as Modulator and Amplifier.