

Technical Description (Transmitter portion)

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: Integral, external

Nominal field strength is 59.1dB μ V/m @ 3m

Production Tolerance of field strength is 56.1 dB μ V/m to 62.1 dB μ V/m

Antenna gain is 0dBi

The circuit of the transmitter mentioned below.

1. Control buttons:

Consists of SW1, SW2, SW3 and SW4

2. Encoding circuit

Consists of U2(TX2S ZYX1514A)

3. Oscillator (27.145MHz):

Consists of X2

4. RF power amplifier and modulator

Consists of Q4 and Q3

5. Filter network

Consists of L4, L5, L6 , C12, C13, C15 and C14

6. Power Supply

Consists of 9VDC (1 x 9.0 D size battery)