

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 3.0 V DC source (2 x 1.5V battery). The EUT has forward / backward control buttons.

After switching ON the EUT and the receiver of the RC Car, pressing the control buttons on the EUT can control the receiver moving forward and backward.

Antenna Type: External integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 45.54dB μ V/m at 3m

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

The brief circuit description is listed as below:

1. Q1 and the associated circuit act as encode circuit.
2. K1, K2 and the associated circuit act as controller buttons.
3. X1 and the associated circuit act as 27.145MHz frequency oscillator.
4. Q2, Q3 and the associated circuit act as the amplifier.