

Technical Description

The Equipment Under Test (EUT) is portable controller for a RC car set which operates at 49.860MHz. The EUT is power by 1 x 9.0V Alkaline battery.

After switching on the EUT, the car will be moved forward or backward, turned left or right based on the joystick control in the controller.

Antenna Type: External, Dedicated Telescope Antenna

Antenna Gain: 0dBi

Nominal rated field strength: 73.9dB μ V/m at 3m

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

The brief circuit description is listed as follows:

1. U1 (TX-2) acts as MCU
2. Y1 acts as 49.860MHz Oscillator
3. C1, T1 and L1 act as antenna matching circuit
4. Q1 & Q2 act as Modulator and Amplifier