

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transmitter (Controller Unit) for a RC car. The sample supplied operated on 61 channels, normally at 2415 - 2475MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 2 x 1.5V AAA batteries. After placing the batteries into the EUT, the car will be moved forward or backward and turned left and right based on the switches pressed in the controller. Also, the corresponding car can be battery charging by EUT.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 90.5dB μ V/m at 3m (Peak), 62.5dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (XC2455B TX) acts as 2.4GHz RF MCU
2. Y1 acts as 16MHz Oscillator
3. C2 & 4.7PF act as antenna matching circuit
4. MOS and related components act as battery charging