

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Car 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 an internal Ni-MH 1.2V (1/4AAA 80mAh) rechargeable battery. After switched ON the EUT, the car will be moved forward or backward and turned left and right based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 71.4dB μ V/m at 3m (Peak), 48.1dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (XC2500B RX) acts as 2.4GHz RF MCU
2. Y1 acts as 16MHz Oscillator
3. C6, C7 and L1 act as antenna matching circuit
4. IC 3.3V acts as voltage regulator
5. U2 acts motor driver