

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 4 x 1.5V AA batteries. After switching 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 76.7dB μ V/m at 3m (Peak), 51.4dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 acts as MCU
2. Y1 acts as 16MHz Oscillator
3. C2, C3 and L1 act as antenna matching circuit
4. U4 acts as voltage regulator
5. U2-3 acts as motor driver.