

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transmitter (Car Unit) for a RC car. The sample supplied operated on 66 channels, normally at 2410 - 2475MHz. The channels are separated with 1MHz channel spacing.

The EUT is powered by 3 x 1.5V AA batteries. After switch 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 104.1dB μ V/m at 3m (Peak), 64.5dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (13541) acts as MCU
2. U2 (13541-2.4G RF) acts as RF Module
3. Y1 acts as 12MHz Oscillator
4. L1 and C5 act as antenna matching circuit
5. U3 acts as motor driver