

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (RC car). The sample supplied operated on 61 channels, normally at 2412 - 2472 MHz. The channel is separated by 1 MHz channel spacing.

The EUT is powered by 3 x 1.5V AAA batteries. After switch on the EUT, the car will be moved forward or backward, turned left or right based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength are 103.4 dB μ V/m at 3m (Peak), 71.9 dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 acts as 2.4GHz RF MCU.
2. Y2 acts as 12MHz Crystal Oscillator
3. L1, C12 & C6 act as antenna matching circuitry
4. U4 acts as voltage regulator
5. U2 acts as motor driver