

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Car Unit) for a RC Car. The sample supplied operated on 22 channels, normally at 2411 - 2472MHz. The channels are shown in below table.

2411	2413	2420	2422	2424
2426	2428	2432	2435	2437
2439	2441	2443	2445	2451
2453	2455	2457	2461	2468
2470	2472			

The EUT is powered by 2 x 3.2V Lithium-ion 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 103.8dB μ V/m at 3m (Peak), 85.1dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (2460A) acts as MCU
2. Y1 acts as 16MHz Oscillator
3. C1, C4, C6, L1 and L2 act as antenna matching circuit
4. U2 (HG07E4114) acts as charging IC
5. U3 (AM2898) acts as motor driver
6. U4 (AM1107) provides LDO function.