

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Car Unit) for a RC car. The sample supplied operated on 21 channels, normally at 2420 - 2462MHz. The channels are shown in below table.

2420	2422	2424	2426	2428	2430
2434	2436	2438	2440	2442	2444
2446	2450	2452	2454	2456	2457
2458	2460	2462			

The EUT is powered by 3 x 1.5V AAA 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 97.8dB μ V/m at 3m (Peak), 79.6dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U2 (H1076-RX) acts as RF MCU
2. Y1 acts as 16MHz Oscillator
3. L1, C7, C8 and L2 act as antenna matching circuit
4. U1 (TX7533) acts as voltage regulator
5. U3 & U4 act as motor driver