

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Car Unit) for a RC car. The sample supplied operated on 33 channels, normally at 2420 – 2465MHz. The channels are shown in the tables below:

2420MHz	2421MHz	2423MHz	2424MHz
2425MHz	2426MHz	2427MHz	2428MHz
2430MHz	2434MHz	2436MHz	2437MHz
2438MHz	2439MHz	2440MHz	2441MHz
2442MHz	2443MHz	2444MHz	2445MHz
2446MHz	2451MHz	2452MHz	2453MHz
2454MHz	2455MHz	2456MHz	2457MHz
2458MHz	2459MHz	2460MHz	2461MHz
2465MHz			

The EUT is powered by 6 x 1.5V AA batteries. After switching on the EUT, the car will perform different actions based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 92.6dB μ V/m at 3m (Peak), 68.5 dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U2 (PAN2711) acts as MCU
2. Y1 acts as 16MHz Oscillator
3. C7, L1 and C4 act as antenna matching circuit
4. U1 (SA2218) acts as voltage regulator
5. U3 (SA8339) acts as motor driver for M1
6. U4 (SA1037) acts as motor driver for M2