

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Controller Unit) for a RC car. The sample supplied operated on 32 channels, normally at 2420 - 2465MHz. The channels are separated as below table:

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

The EUT is powered by 2 x 1.5V AAA batteries. After switching on the EUT, the car will be move in different directions based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 96.9dB μ V/m at 3m (Peak), 65.2dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (PAN2010CKE) acts as RF MCU
2. Y1 acts as 16MHz Oscillator
3. C1, C3, C8, L1 and L2 act as antenna matching circuit