

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Car Unit) for a RC car. The sample supplied operated on 15 channels, normally at 2422 - 2467MHz. The channels are shown in table below.

2422	2424	2426	2430	2433	2436
2438	2441	2444	2447	2454	2459
2462	2464	2467			

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 99.6dB μ V/m at 3m (Peak), 79.8dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U2 (IC HW2181B) acts as RF MCU
2. Y1 acts as 12MHz Oscillator
3. C7 and L1 act as antenna matching circuit
4. U4, U5 and U8 (MX530) act as Motor circuit
5. U3 (BX4114) acts as Charging IC
6. U6 (LIS2DE12TR) acts as Accelerometer IC