

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transmitter (Car Unit) for a RC car. The sample supplied operated on 22 channels, normally at 2420 - 2465MHz. The channel table is shown below.

2420	2422	2424	2426	2428	2430
2432	2435	2437	2439	2441	2443
2445	2447	2449	2451	2453	2455
2457	2459	2461	2465		

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 98.2dB μ V/m at 3m (Peak), 71.8dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U4 (HF2416) acts as 2.4G RF Module
2. U1 (AM1127S) acts as Motor Driver
3. U2 (BX4114) acts as a USB Charging Circuit
4. Y1 acts as 16MHz Oscillator
5. C11, C13, C15, L2 and L3 act as antenna matching circuit