

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Car Unit) for a RC car. The sample supplied operated on 71 channels, normally at 2405 - 2475MHz. The channels are separated with 1MHz spacing.

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 87.1dB μ V/m at 3m

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U2 (2.4GHZ_SOP16) acts as RF Module
2. Y1 acts as 16MHz Oscillator
3. C1 and C4 act as antenna matching circuit
4. U5 (ME6206/3.3V) acts as Regulator
5. U1 & U2 (BW1601) act as Motor Driver
6. U3 (AUDIO_SOP8) acts as Audio Module
7. BUZ1 acts as Speaker