

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Car Unit) for a RC car. The sample supplied operated on 46 channels, normally at 2420 - 2465MHz. The channels are separated with 1MHz channel spacing.

The EUT is powered by 1 x 6.4V rechargeable battery. After switch 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, whip antenna

Antenna Gain: 0dBi

Nominal rated field strength is 99.0dB μ V/m at 3m (Peak), 73.7dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U4 (BL2402D) acts as MCU
2. Y1 acts as 12MHz Oscillator
3. C17 and C18 act as antenna matching circuit
4. U8 & U9 act as motor driver
5. U2,U3,U5, Q5, Q6 and corresponding components act as charging circuitry