

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 spacing.

The EUT is powered by 1 x 6.4V Rechargeable battery. 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 97.7dB μ V/m at 3m (Peak), 71.0dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U4 (BL2402E) acts as RF MCU
2. Y1 acts as 12MHz Oscillator
3. U10, U11 & U12 act as motor driver
4. U6, U13 & U14 act as motor driver
5. C17 & C18 act as antenna matching circuit
6. U7, Q4 & Q5 act as charging circuitry
7. U1 acts as Dual MOSFET