

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.

Antenna Type: Internal, whip antenna

Antenna Gain: 0dBi

Nominal rated field strength is 97.0 dB μ V/m at 3m

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U3 acts as 2.4 RF MCU portion
2. Y1 acts as 12MHz Oscillator
3. C19 and C20 act as antenna matching circuit
4. U4 & U5 act as motor driver
5. U2 acts as Charging chipset
6. U1 acts as switched capacitor voltage doubler