

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Car Unit) for a RC car. The sample supplied operated on 25 channels, normally at 2430 - 2454MHz. The channels are separated with 1MHz spacing.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 94.7dB μ V/m at 3m (Peak), 77.4dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 acts as MCU
2. U3 act as Low Voltage Regulator circuit
3. U7 acts as RF Module
4. Y1 acts as 16MHz Oscillator
5. C17, C18, L1 and L2 act as antenna matching circuit
6. FB2 and FB3 act as speaker circuit
7. Q1 and Q2 act as amplifier.
8. U4, U5 and U6 act as Motor Circuit