

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, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 89.9dB μ V/m at 3m (Peak), 65.8dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U3 (BL2402E) acts as MCU
2. U4 & U5 (MX530) act as Motor circuits
3. U1 (HX4002B) acts as Charge Pump Boost circuit
4. U2 (BX4114) acts as Charging circuit
5. Y1 acts as 12MHz Oscillator
6. C19 and C20 act as antenna matching circuit