

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 4 x 1.5V AA batteries. The car has 2 modes, the "TRY ME" and the on mode. For the "TRY ME" mode, after switching on the EUT, sound will be emitted from the car based on the button pressed on the car. For the on mode, it has all the functions that the "TRY ME" mode has. In addition, the car will be moved forward or backward and turned left and right based on the switches pressed in the controller. Sound will be emitted from the car based on the button pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 95.2dB μ V/m at 3m (Peak), 73.8dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (RW1602N2) acts as MCU
2. Y1 acts as 16MHz Oscillator
3. L1, C5 and C6 act as antenna matching circuit
4. U2 acts as voltage stabilizing circuit
5. U3 and U4 act as motor driver
6. U5 acts as sound drive circuit.