

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 channel spacing.

The EUT is powered by 3 x 1.5V AAA batteries. After switch on the EUT, the car will be moving forward or backward and turning left or right based on the switches pressed on the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 95.3dB μ V/m at 3m (Peak), 68.7dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U2 (XLPG263-SOP16) acts as 2.4GHz RF MCU
2. Y1 acts as 12MHz Oscillator
3. U3 acts as motor driver
4. U1 acts as voltage regulator