

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transmitter (Orange Controller Unit) for a RC car. The sample supplied operated on 1 channel, normally at 2450MHz.

The Equipment Under Test (EUT), is a portable 2.4GHz Transmitter (Blue Controller Unit) for a RC car. The sample supplied operated on 1 channel, normally at 2460MHz.

Both Controller units are powered by 2 x 1.5V AAA batteries. After switching on the EUT, the car will be moved forward or backward based on the switches pressed in the controller.

For Orange Controller

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 97.2dB μ V/m at 3m (Peak), 66.6dB 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. Y1 acts as 12MHz Oscillator
3. C1, C5, C6 and L1 act as antenna matching circuit

For Blue Controller

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 95.5dB μ V/m at 3m (Peak), 64.3dB 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. Y1 acts as 12MHz Oscillator
3. C1, C5, C6 and L1 act as antenna matching circuit