

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transmitter (Controller Unit) for a RC car. The sample supplied operated on 71 channels, normally at 2405 - 2475MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 1 x 9.0V Alkaline battery. After switching on the EUT, the car will be moved forward or backward and turned left and right based on the switches pressed in the controller.

Antenna Type: External, Whip antenna

Antenna Gain: 0dBi

Nominal rated field strength is 98.3dB μ V/m at 3m (Peak), 91.2dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (RS14132-TX) acts as RF Module
2. IC1 acts as MCU
3. Y1 acts as 12MHz Oscillator
4. C1, C2, R1 and L1 act as antenna matching circuit