

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Controller Unit) for a RC motorcycle. The sample supplied operated on 46 channels, normally at 2420 – 2465 MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 2 x 1.5V AAA batteries. After switching on the EUT, the motorcycle will move in different directions based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 97.3dB μ V/m at 3m (Peak), 73.5dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U2 (LT6801A) acts as MCU
2. Y1 acts as 12MHz Oscillator
3. C1, C2, C3 and L1 act as antenna matching circuit