

Technical Description

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

The EUT is powered by 6 x 1.5V AA batteries. After switching on the EUT, the EUT 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 94.4dB μ V/m at 3m (Peak), 79.3dB 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. C4, C7, C8 and L1 act as antenna matching circuit
4. U1(BX6208) acts as voltage regulator
5. U4 (SA1037) acts as motor driver for M2
6. U3 (MD2689) acts as motor driver for M1