

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Controller Unit) for a RC Skateboard. The sample supplied operated on 40 channels, normally at 2423 - 2462MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 2 x 1.5V AAA batteries. After switching on the EUT, the Skateboard will be moved forward or backward and turned left and right based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 96.5dBμV/m at 3m (Peak), 75.9dBμV/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (PAN2010) acts as MCU
2. Y1 acts as 16MHz Oscillator
3. L1 acts as antenna matching circuit
4. U2 acts as stabilivolt.