

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Centipede Unit) for a RC Centipede. The sample supplied operated on 24 channels, normally at 2410 - 2475MHz. The channels are shown in below table.

2410	2413	2416	2419	2422
2425	2428	2431	2434	2437
2440	2442	2444	2446	2448
2451	2454	2457	2460	2463
2466	2469	2472	2475	

The EUT is powered by 3 x 1.5V AAA batteries. After switching on the EUT, the centipede will be moved forward 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 91.8dB μ V/m at 3m (Peak), 69.0dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. IC1 (SOP16-F) acts as MCU
2. X1 acts as 16MHz Oscillator
3. C1, C2, C9 and L1 act as antenna matching circuit
4. IC2 and IC3 act as motor driver
5. Q2 acts as Low-dropout regulator.