

Technical Description

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

The EUT is powered by 4 x 1.5V AAA batteries. After switching on the controller, 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 98.4dB μ V/m at 3m (Peak), 92.3dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (HJD84) acts as MCU
2. Y1 acts as 24MHz Oscillator
3. L1, C7 and L2 act as antenna matching circuit
4. U2 (MX612) acts as motor driver for M1
5. U3 (MX612) acts as motor driver for M2
6. U5 (ME6206) acts as voltage regulator