

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Bug Unit) for a RC bug. The sample supplied operated on 66 channels, normally at 2410 MHz to 2475 MHz. The channels are separated with 1 MHz.

The EUT is powered by 3 x 1.5V AAA batteries. After switching on the EUT, the bug will move based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 82.4dB μ V/m at 3m (Peak), 62.8dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (HJD1084A) acts as MCU
2. Y1 acts as 24MHz Oscillator
3. C5, L10 and C6 act as antenna matching circuit
4. U2 (CST6118) acts as motor driver for M1
5. U3 (CST6118) acts as motor driver for M2
6. U5 (6206A33) acts as voltage regulator