

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Fly 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 1 x 3.7V lithium-ion battery. After switching on the EUT, the fly will move in different directions and stick on the wall based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 93.4dB μ V/m at 3m (Peak), 87.2dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 HJD84-2868-V05 (YC1062) acts as MCU
2. Y1 acts as 24MHz Oscillator
3. L1, L2 and C4 act as antenna matching circuit
4. U3(6206-3.3) acts as voltage regulator.
5. U4(FM116C) acts as motor driver for M3
6. U5(FM116C) acts as motor driver for M2
7. U2 (4054) acts as battery charger IC