

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Spider Unit) for a RC spider. 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 EUT will move based on the switches pressed in the controller. The battery can be recharged by a USB-C cable.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 84.3dB μ V/m at 3m (Peak), 79.0dB 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, C4 and L2 act as antenna matching circuit
4. U3 (ME6206) acts as voltage regulator
5. U4 (FM116C) acts as motor driver for M3
6. U5 (FM116C) acts as motor driver for M2
7. U2 (CL4054) acts as charging IC
8. U6 (MOS2302) acts as motor driver for M1