

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Controller Unit) for a RC Helicopter. The sample supplied operated on 55 channels, normally at 2418 - 2472MHz. The channels are separated with 1MHz channel spacing.

The EUT is powered by 6 x 1.5V AA batteries. After switch on the EUT, the Helicopter will be moved forward or backward 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 94.7dB μ V/m at 3m

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (OTP/SOP16) acts as MCU
2. U2 (XN297L) acts as RF Module
3. U3 (SUN4054) acts as Charging Module
4. U4 (AMS1117) and U5 (6206) act as Power Regulator
5. Y1 acts as 16MHz Oscillator
6. C8, C9, L1 and E1 act as Antenna Matching Circuit