

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz pure Transmitter (Controller Unit) for a RC Boat. The sample supplied operated on 8 channels, normally at 2408 - 2467 MHz. The channel table is shown below.

2408	2414	2428	2434
2440	2455	2461	2467

The EUT is powered by 4 x 1.5V AA batteries. After switch on the EUT, the boat will be moved forward or backward and turned left and right based on the switches pressed in the controller. Also, the controller can use battery charging cable to charge the corresponding boat.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 84.7dB μ V/m at 3m

Maximum allowed field strength of production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. JP2 acts as 2.4GHz RF MCU portion
2. Y3 acts as 12MHz Oscillator
3. U1 acts as voltage regulator
4. Q3 and related components act as charging circuitry
5. C17 and L4 act as antenna matching circuitry