

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Controller Unit) for a RC car. The operation frequency range is between 2403.6MHz and 2471.6MHz with the following 35 Channel used:

| Channel | Frequency (MHz) |
|---------|-----------------|
| 1 | 2403.6 |
| 2 | 2405.6 |
| 3 | 2407.6 |
| 4 | 2409.6 |
| 5 | 2411.6 |
| 6 | 2413.6 |
| 7 | 2415.6 |
| 8 | 2417.6 |
| 9 | 2419.6 |
| 10 | 2421.6 |
| 11 | 2423.6 |
| 12 | 2425.6 |
| 13 | 2427.6 |
| 14 | 2429.6 |
| 15 | 2431.6 |
| 16 | 2433.6 |
| 17 | 2435.6 |
| 18 | 2437.6 |
| 19 | 2439.6 |
| 20 | 2441.6 |
| 21 | 2443.6 |
| 22 | 2445.6 |
| 23 | 2447.6 |
| 24 | 2449.6 |
| 25 | 2451.6 |
| 26 | 2453.6 |
| 27 | 2455.6 |
| 28 | 2457.6 |
| 29 | 2459.6 |
| 30 | 2461.6 |
| 31 | 2463.6 |
| 32 | 2465.6 |
| 33 | 2467.6 |
| 34 | 2469.6 |
| 35 | 2471.6 |

The EUT is powered by 2 x 1.5V AAA batteries.

After switch on the EUT, the car will be moved forward or backward and turned left and right based on the switches pressed in the controller.

The brief circuit description is listed as below:

- 1) U1 acts as a MCU (HF2402).**
- 2) Y1 acts as a Crystal for U1 (16MHz).**

Antenna Type: Internal antenna

Antenna Gain: 0dBi

Nominal rated field strength: 88.2 dB μ V/m at 3m

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