

Technical Description

The Equipment Under Test (EUT) is a 2.4GHz Transceiver for a RC Car operating at the frequency range of 2410-2475MHz with 1MHz channel spacing. The EUT is powered by 4 * 1.5V AA batteries. After switch on the EUT and paired with controller, the car can be controlled to move forward/backward and turn left/ right by the controller.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 99.1dB μ V/m at 3m

Maximum allowed field strength of production tolerance: 94.0 dB μ V/m – 100.0 dB μ V/m

The brief circuit description is listed as below:

- 1) U1 and the associated circuit act as a RX MCU.
- 2) U2 and U3 acts as the motor drivers.
- 3) U4 acts as the DC convertor.
- 4) Y1 acts as the crystal oscillator for U1
- 5) SW1 acts as the power switch
- 6) L1, C2, C3 and C6 act as the filter.