

Technical Description

The Equipment Under Test (EUT) is a portable 2.4GHz Transceiver (Car Unit) for a RC car operating at the frequency range of 2410-2475MHz with 1 MHz channel spacing. The EUT is powered by 3 x 1.5V AA batteries. After switching on the EUT and being 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: 88.9dB μ V/m at 3m

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

The brief circuit description is listed as below:

1. U1 and the associated circuit act as MCU.
2. U2 and the associated circuit act as the DC converter
3. Y1 and the associated circuit act as 12MHz frequency oscillator.
4. U3, U4 and associated circuit act as the driver.
5. S1 acts as the power switch.