

## Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Car Unit) for a RC Car. The sample supplied operated on 46 channels, normally at 2420 - 2465MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 3 x 3.2V Lithium-ion batteries. After switching on the EUT, the car 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 100.8dB $\mu$ V/m at 3m (Peak), 89.2dB $\mu$ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (ABE2402X1) acts as MCU
2. Y1 acts as 16MHz Oscillator
3. L1, C1 and C3 act as antenna matching circuit
4. U2 acts as voltage regulator
5. U3 (MD2686) and U4 (AM2837) act as motor driver
6. U5, U9, U10, U11 and U12 act as charging circuit.