

## Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Controller Unit) for a RC Speed Bumper Car. The sample supplied operated on 71 channels, normally at 2405 - 2475MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 2 x 1.5V AAA batteries. After switching on the EUT, the car will be moved forward or backward, turned left and right, rotated clockwise or anti-clockwise or undergo a series of auto movement based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 85.8dB $\mu$ V/m at 3m (Peak), 61.7dB $\mu$ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (XS120A) acts as MCU
2. Y1 acts as 16MHz Oscillator
3. L1, C2 and C3 act as antenna matching circuit.