

Technical Description

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

The EUT is powered by 4 x 1.5V AA 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. Sound will be emitted and vibration will be produced based on the button pressed in the controller. Pizza toy will be ejected from the car also based on the button pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 86.7dB μ V/m at 3m (Peak), 73.9dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U2 (SOP16) acts as MCU
2. Y1 acts as 16MHz Oscillator
3. L1, C5 and C6 act as antenna matching circuit
4. U1 provides LDO function
5. U3 acts as motor driver.