

## Technical Description

The Equipment Under Test (EUT), is a pair of portable 2.4GHz Transmitter (Controller Unit) for two RC cars. The sample supplied operated on 2 channels. Controller #1 normally works at 2460MHz, and Controller #2 normally works at 2450MHz.

Both Controller #1 and Controller #2 (the EUT) are powered by 2 x 1.5V AAA batteries. After switch on the EUT, the car(s) will be moved forward around the track when we pressed the button on the controller(s).

For FCC, the Model: 83151, 83152, 83153, 83154, 83155, 83156, 83157, 83158, 83159, 83162, 83163, 83164, 83165, 83166, 83167, 83168 and 83169 are the same as the Model: 83161 in hardware aspect as declared by client. The difference in model number serves as marketing strategy as declared by client. The models are different in non-conductive outer casing only as declared by client.

Antenna Type: Internal, Integral

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

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| For Controller #1 |
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The brief circuit description is listed as below:

- 1) U1 acts as a MCU (2.4GT).
- 2) Y1 (12MHz) acts as a crystal.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 90.5dB $\mu$ V/m at 3m

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

For Controller #2

The brief circuit description is listed as below:

- 1) U1 acts as a MCU (2.4GT).
- 2) Y1 (12MHz) acts as a crystal.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 92.0dB $\mu$ V/m at 3m

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