

Antenna Specification

FCC Regulatory Certification
Project Name : ROC2

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1. Document Information

- **Project Name:** ROC2
- **Model:** ROC2

2. Antenna Supplier Information

- **Supplier Name:** Nutek Corporation
- **Supplier Address:** No.167, Lane 235, Bauchiau Rd., Xindian District, New Taipei City

3. Antenna Information

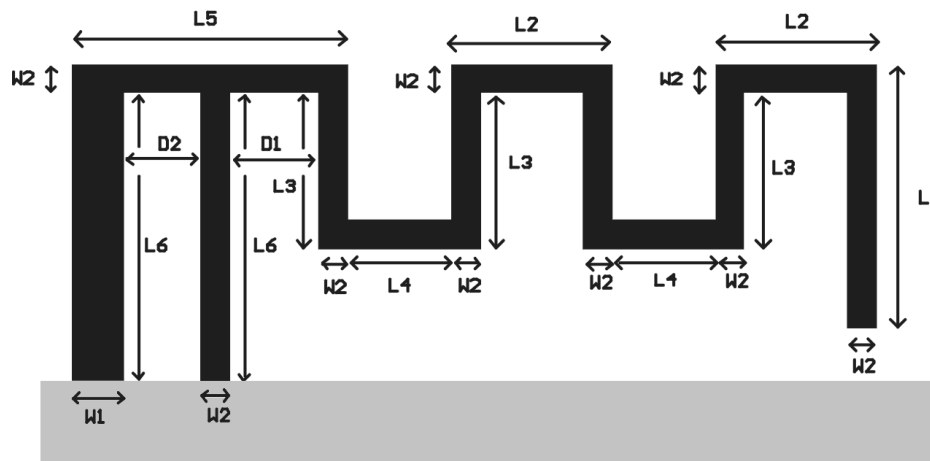
- **Antenna Type:** MIFA PCB Antenna
- **Operating Frequency Range:** 2400 ~ 2480 MHz
- **Center Frequency :** 2450 MHz
- **Peak Gain (Max) :** -4.09 dBi
- **Reference Impedance:** 50 Ohm

4. Antenna Dimensions

The antenna is integrated on the PCB as shown in the assembly drawing below.

All dimensions are in millimeters.

Reference	mm
L1	4.50
L2	2.74
L3	2.65
L4	1.76
L5	4.70
L6	4.90
W1	0.90
W2	0.50
D1	1.50
D2	1.30



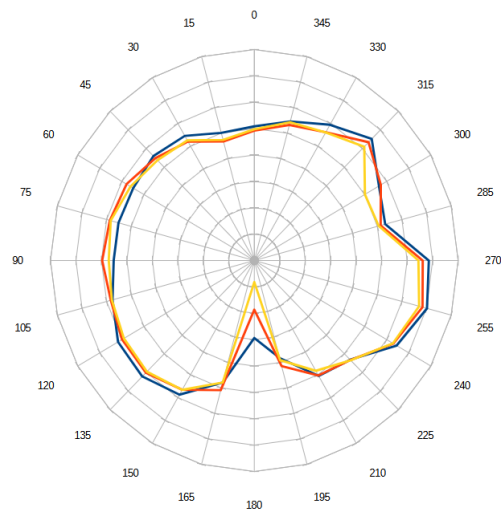
5. Purpose

This document describes the antenna specification and radiation characteristics of the ROC2 transmitter for FCC certification.

6. Radiation Performance – Horizontal Plane

Test Frequencies: 2400 MHz / 2450 MHz / 2480 MHz

Frequency (MHz)	Max Gain (dBi)	Min Gain (dBi)	Avg Gain (dBi)
2400	-4.09	-25.32	-12.32
2450	-5.82	-30.68	-12.75
2500	-6.51	-35.91	-13.51



7. Radiation Performance – Vertical Plane

Test Frequencies: 2400 MHz / 2450 MHz / 2480 MHz

Frequency (MHz)	Max Gain (dBi)	Min Gain (dBi)	Avg Gain (dBi)
2400	-15.11	-30.48	-21.50
2450	-14.91	-35.37	-21.86
2500	-18.73	-34.28	-23.27

