

Antenna Specification

FCC Regulatory Certification
Project Name : 4361215

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1. Document Information

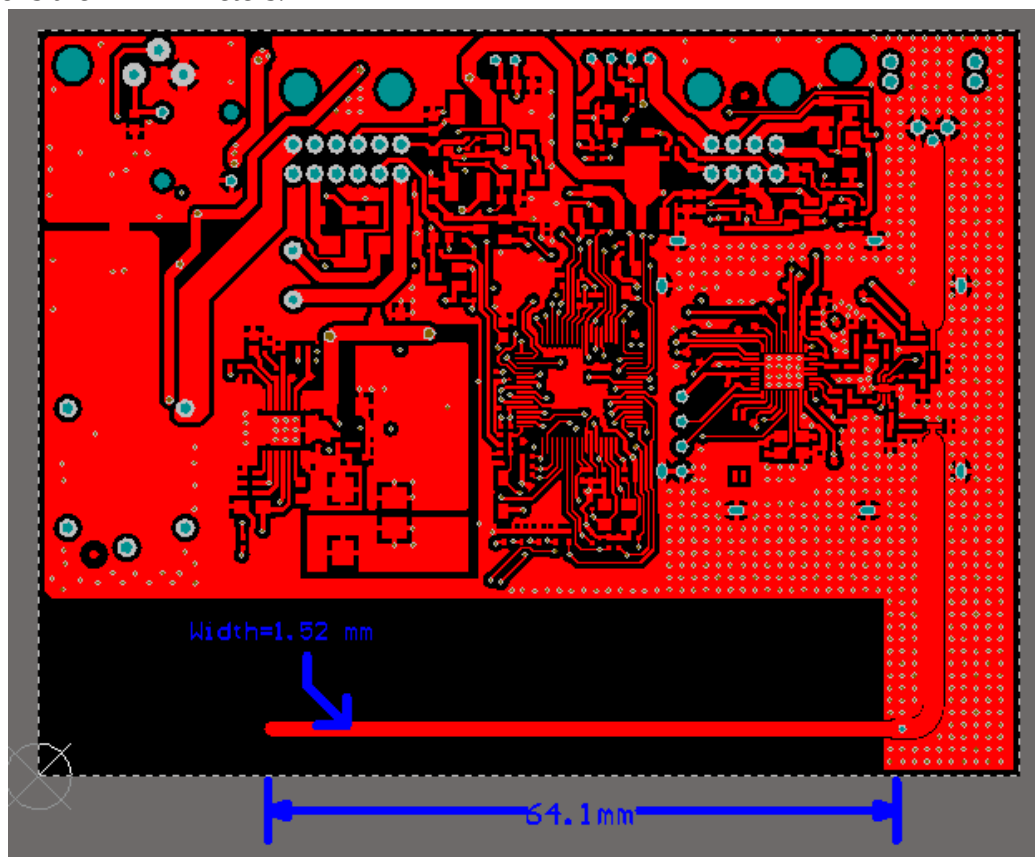
- **Project Name:** 4361215
- **Model:** AQ11
- **Antenna Type:** PCB Trace Antenna
- **Purpose:** This document describes the antenna specification and radiation characteristics for FCC certification of the device.

2. General Antenna Specifications

Item	Specification
Antenna Type	PCB Trace Antenna
Operating Frequency Range	902 ~ 928 MHz
Center Frequency	913.6 MHz
Peak Gain (Max)	-1.58 dBi
Measurement Planes	Horizontal Plane / Vertical Plane
Reference Impedance	50 Ω
Manufacturer	Nutek Corporation

3. Antenna Dimensions

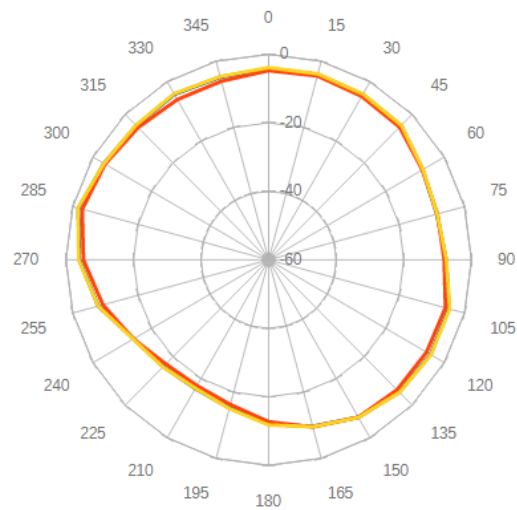
The antenna is integrated on the PCB as shown in the assembly drawing below.
All dimensions are in millimeters.



4. Radiation Performance – Horizontal Plane

Test Frequencies: 904 MHz / 913.6 MHz / 923.6 MHz

Frequency (MHz)	Max Gain (dBi)	Min Gain (dBi)	Avg Gain (dBi)
904	-1.71	-16.61	-7.34
913.6	-2.87	-17.56	-8.07
923.6	-1.58	-16.69	-7.21



5. Radiation Performance – Vertical Plane

Test Frequencies: 904 MHz / 913.6 MHz / 923.6 MHz

Frequency (MHz)	Max Gain (dBi)	Min Gain (dBi)	Avg Gain (dBi)
904	-11.15	-34.66	-19.00
913.6	-11.67	-33.48	-19.92
923.6	-11.15	-34.66	-19.08

