

ANTENNA DATASHEET

Product : Wi-Fi Antenna

Model Name : AVG-00011

Date : 2024. 06. 14



Supplier : Ace Antenna Corp.

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1. Summary

This approval document establishes electrical & mechanical specifications for Ace Antenna's antennas to be mounted on to the Wi-Fi device, and any changes or modifications to the approval documents may be reflected under consultation between Ace Antenna and Supplier.

2. General Specifications

2-1. Description and Model

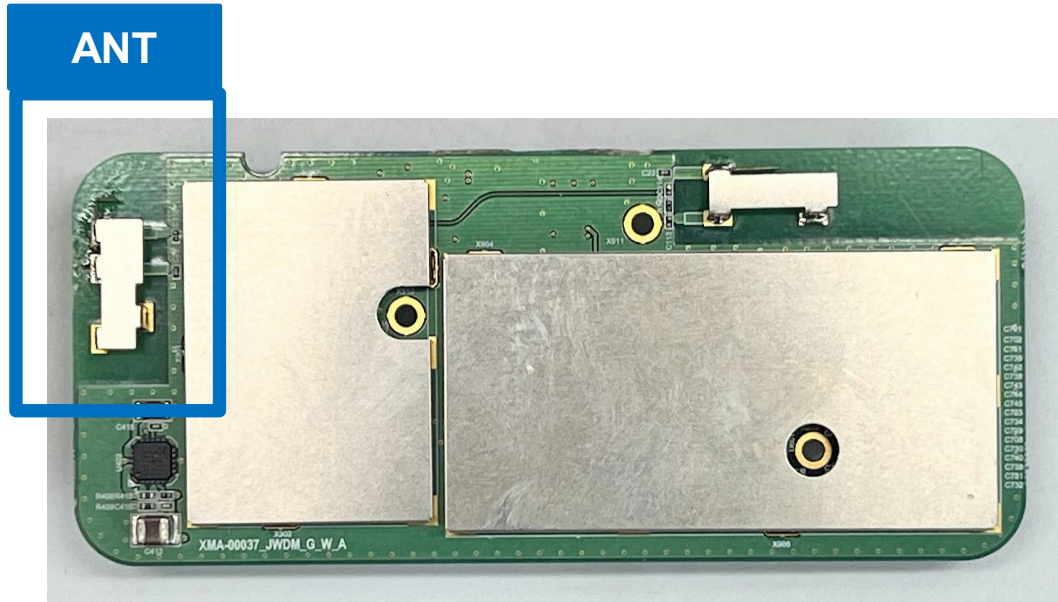
- 1) Model : **AVG-00011**
- 2) Frequency Band: Antenna for WI-FI 2.4G support
- 3) Ant. Type : Planar Invert F Antenna
- 4) Size (Width X Length X Thickness) : 14mm X 5mm X 3mm
- 5) Connector type : Press SMT
- 6) RoHS Compliant

2-3. Electrical Specifications

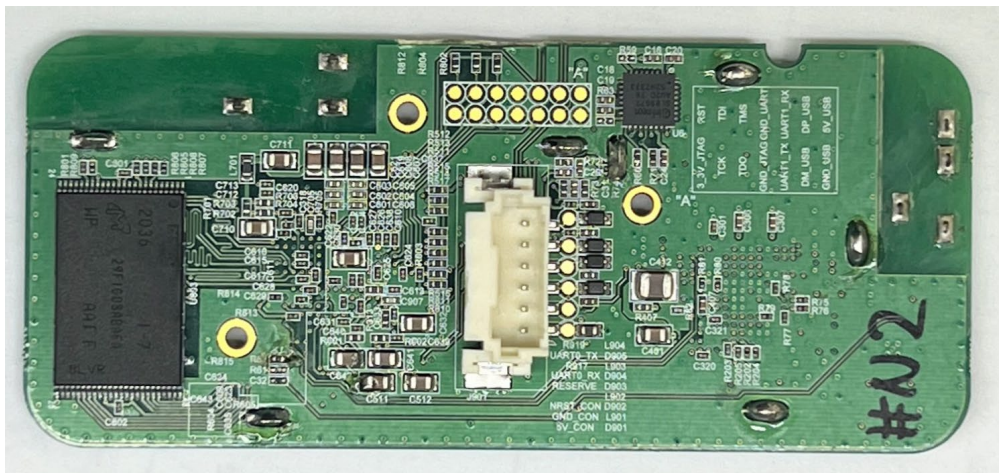
Electrical specification	
Frequency Range	2400-2483.5 MHz
Impedance	50Ω
Polarization	Linear
Radiation Pattern	Omni-directional

SPEC \ Band	WI-FI					
	2400	2412	2437	2467	2472	2483.5
Frequency						
Peak Gain (dBi)	1.74	1.78	1.98	1.84	1.56	1.51
VSWR	≤ 2.6					

Actual Picture (PBA)

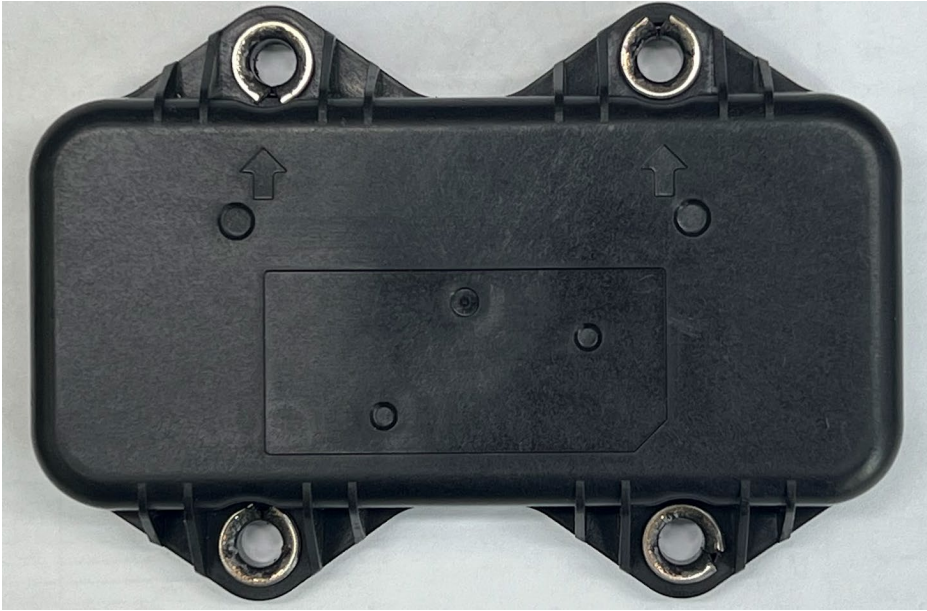


TOP

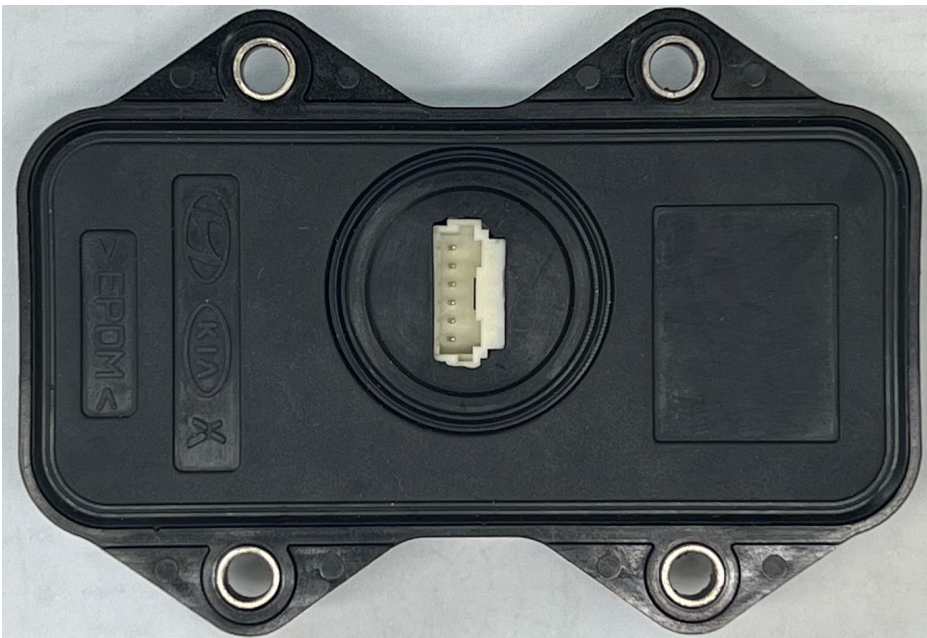


BOTTOM

Actual Picture
(SET)



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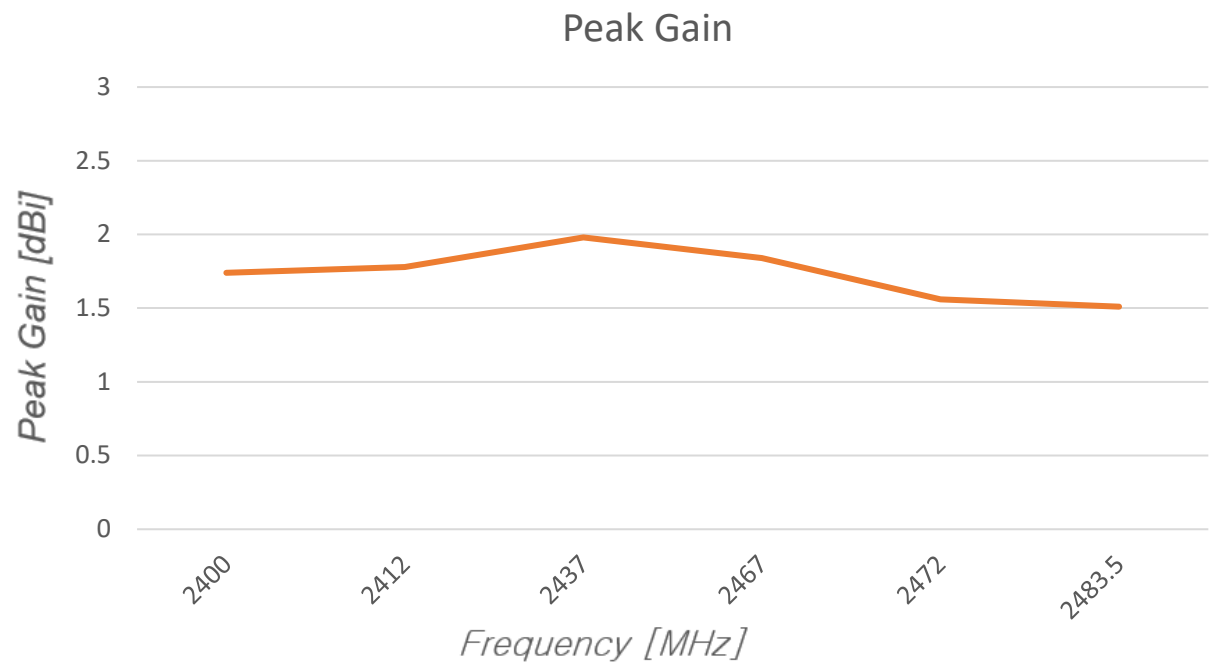


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3. Electrical Performance Data

3.1 Radiation Performance

3.1.1 Peak Gain

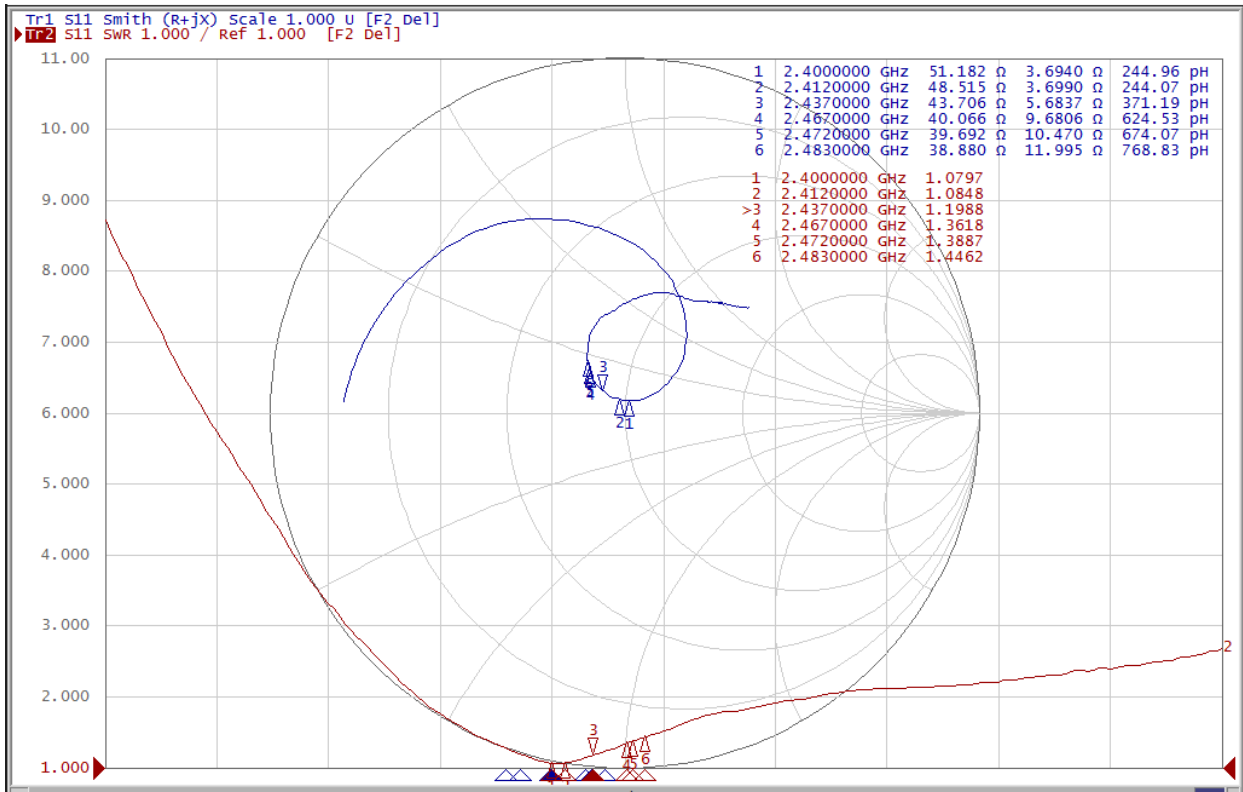


Frequency [MHz]	2400	2412	2437	2467	2472	2483.5
Peak Gain [dBi]	1.74	1.78	1.98	1.84	1.56	1.51

3.2 3D GAIN

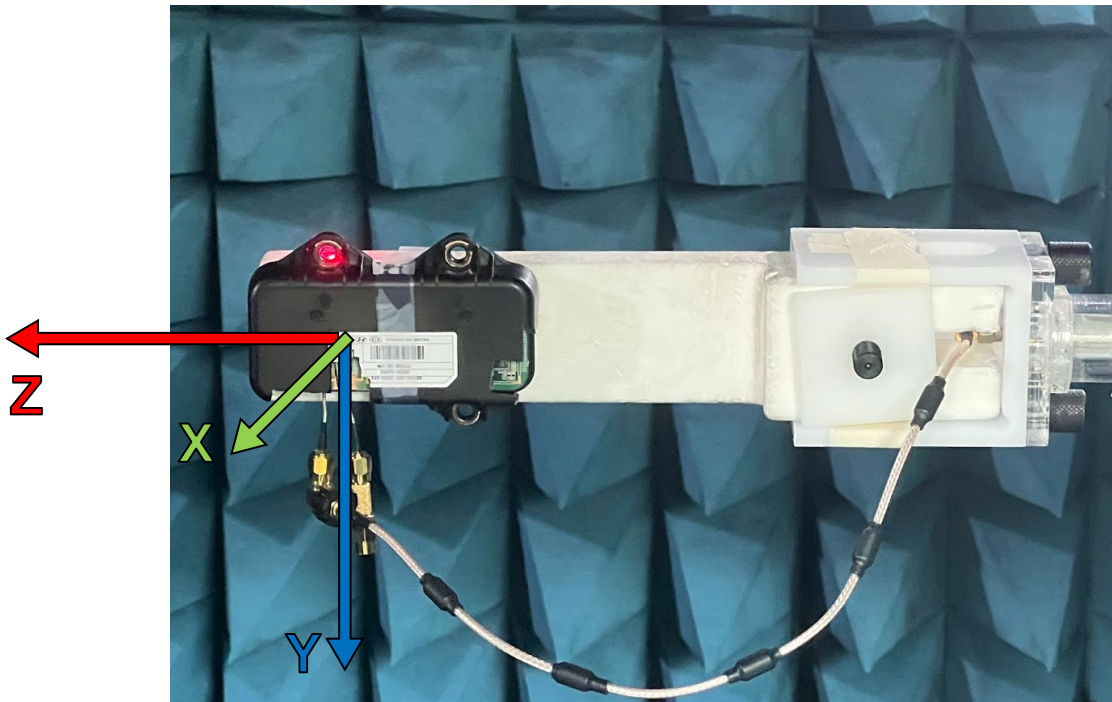
Band	Wi-Fi 2.4G					
Frequency (MHz)	2400	2412	2437	2467	2472	2483.5
Efficiency (%)	52.1	53.9	58.9	55.3	53.6	47.0
Average Gain (dB)	-2.83	-2.69	-2.30	-2.58	-2.71	-3.28
Peak Gain (dBi)	1.74	1.78	1.98	1.84	1.56	1.51

3.3 VSWR

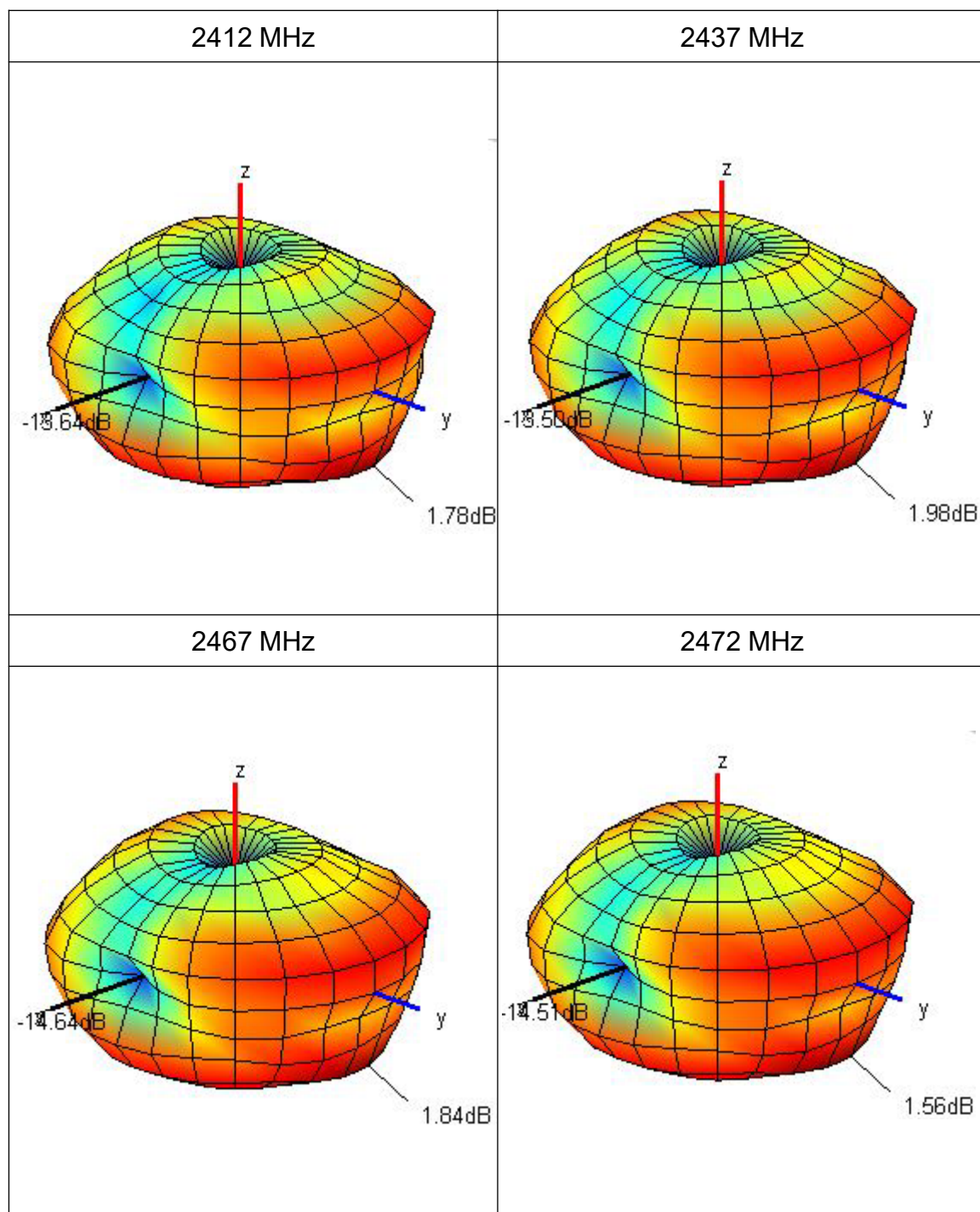


3.4 3D Radiation Pattern

3.4.1 Test Condition



3.4.2 Radiation Pattern



4. Mechanical Specification

[illegible]

5. Environment and precautions for use

1) Storage

- (1) Avoid hot and humid areas.
- (2) Avoid places with highly corrosive hydrogen sulfoxide gas.
(Sulfuric acid, chlorine, ammonia, etc.) Acid corrodes the appearance of the antenna and may degrade performance)

2) Transportation

- (1) If the contact terminal of the antenna is bent or pressed, the contact may be unstable and the characteristics may be reduced.
- (2) Do not touch the antenna directly with your bare hands when transporting it.
(If you touch the antenna with your own hands, fingerprints may get on the antenna. This fingerprint can cause corrosion on the antenna surface)

Environmental	
Operation Temperature	-40 °C to +105 °C
RoHS Compliant	Yes

Storage	
Storage Temperature	-40 °C to +105 °C
Humidity	Less than 75% RH
Storage Place	Avoid places with highly corrosive gas & direct sunlight & humid places
Packing	Stored in manufacturer's sealed packaging

6. Packing

Packaging specifications relating to unfinished products

7. Revision History

Version	Date	Author	Comment
1.0	24.06.14	진원휘 연구위원	Initial Version