

Antenna Datasheet

Product OC: Y0CAJ0CA1EA

Version: 1.0

Date: 2024-09-22

Product Name: WIFI Antenna

Key Features:

Frequency Band: 2400–2500 MHz

Dimensions: 68 × 19 × 0.6 mm

Efficiency: Up to 46.9%

RoHS and REACH Compliant

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1 Specification

Test Condition: Assembled in test device

1.1. Electrical

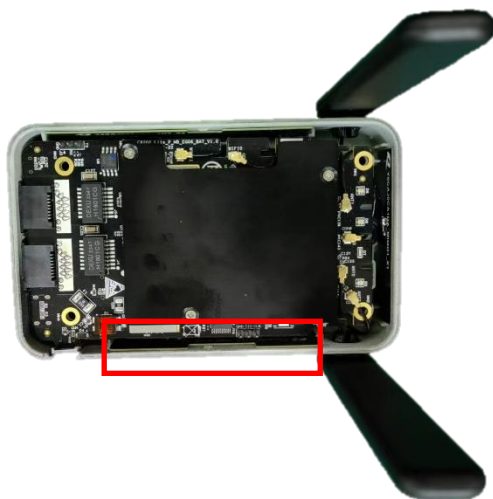
Electrical	
Frequency Range	2400–2500 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional
VSWR	≤ 1.5
Peak Gain	2.1 dBi

1.2. Mechanical & Environmental

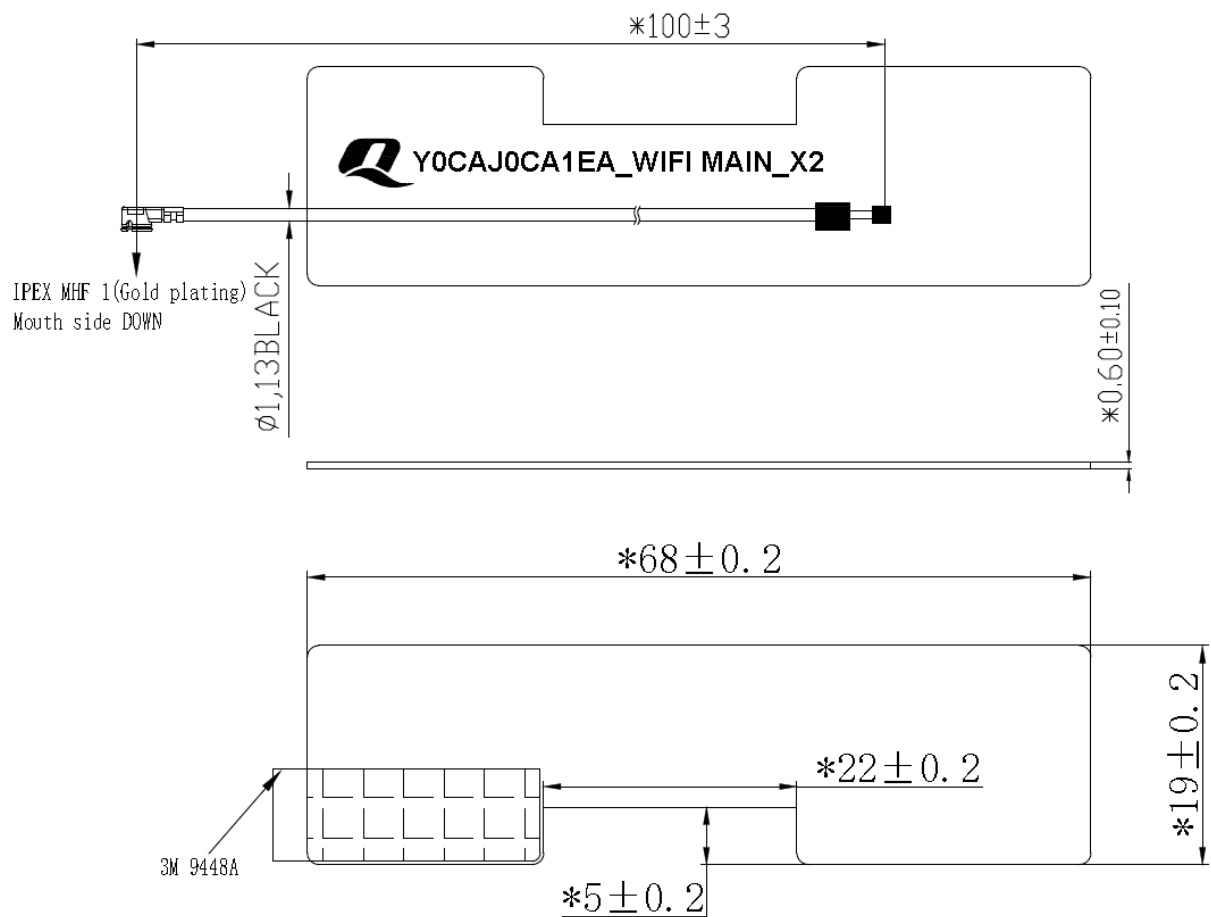
Mechanical	
Antenna Dimensions	68 × 19 × 0.6mm
Material & Color	PCB & Black
Cable Type & Color & Length	Φ1.13 & Black & 100mm
Connector Type	IPEX MHF 1
Mounting Type	Adhesive
Weight	Typ:1.9g
Environmental	
Operation Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C

RoHS & REACH Compliant	YES
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1.3. Antenna Assembly



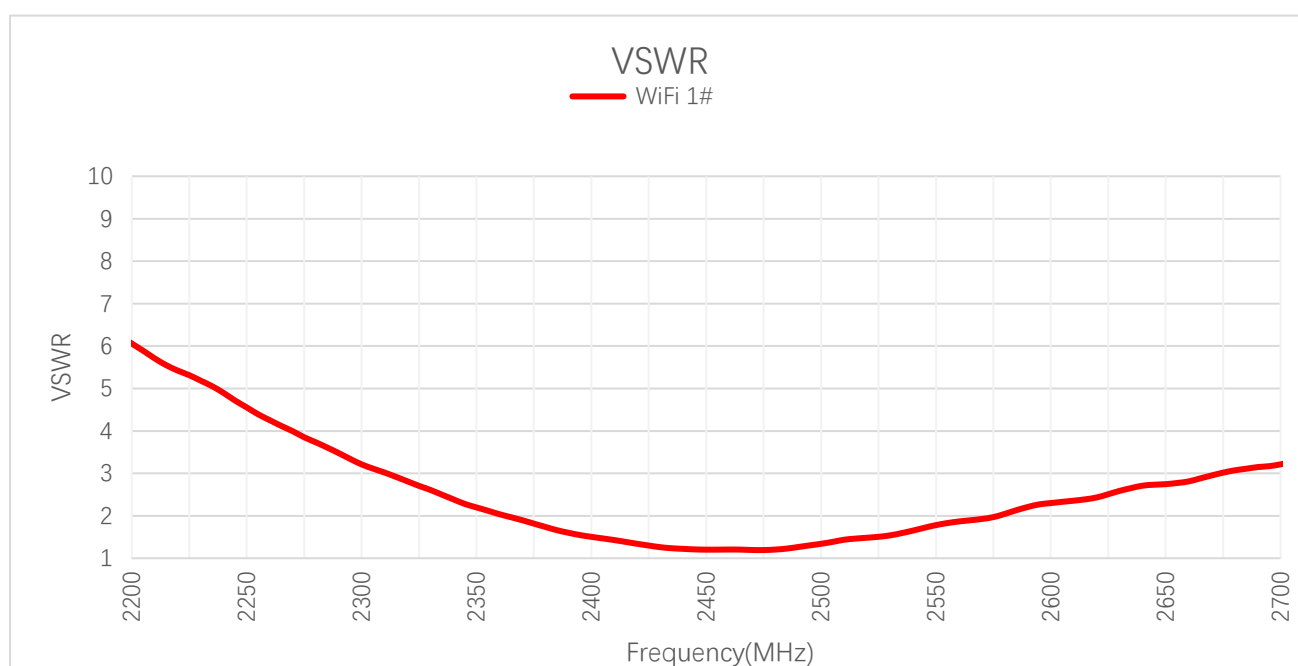
2 Drawing



3 Detailed Performance

3.1. S-Parameter Test

3.1.1. VSWR

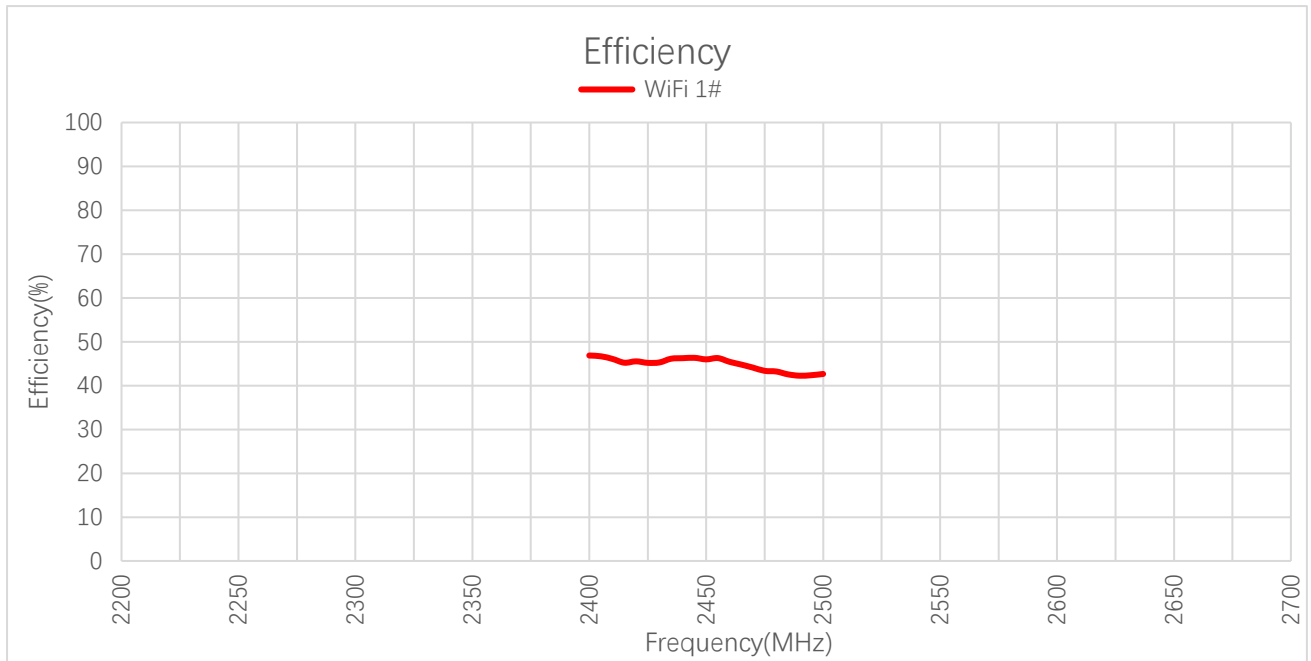


VSWR

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6525	7125	-
VSWR	1.5	1.2	1.3	-	-	-	-	-	-	-

3.2. Radiation Performance Test

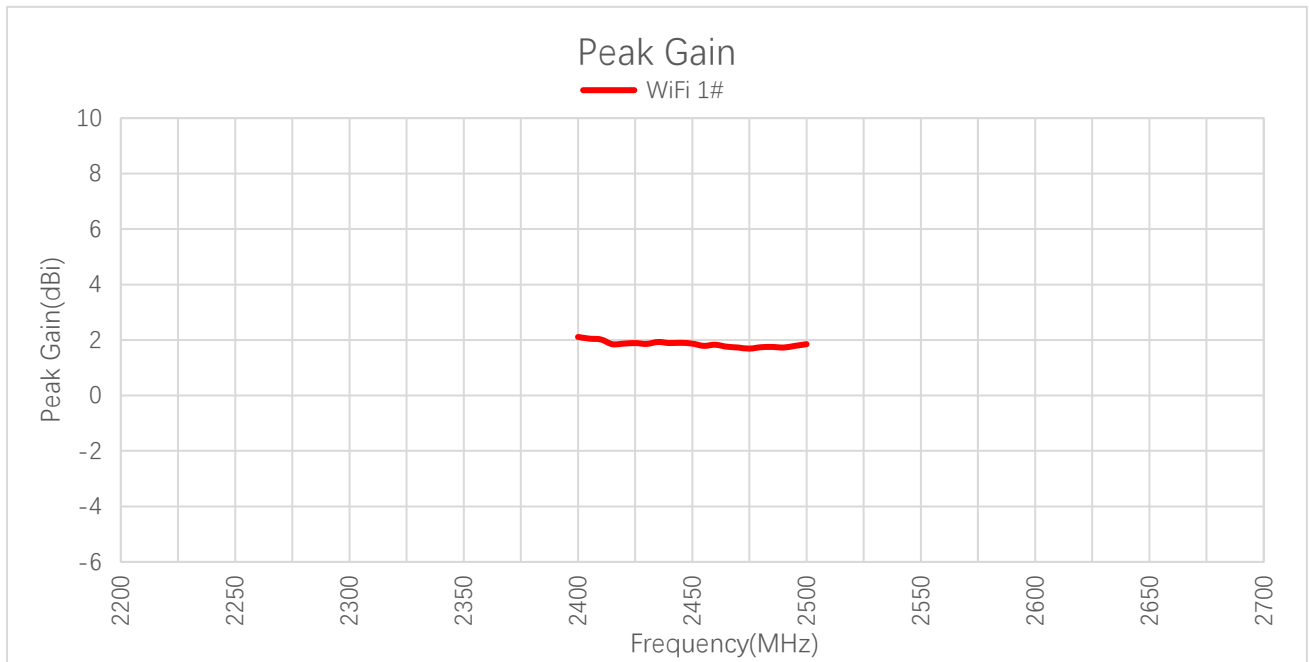
3.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6525	7125	-
Efficiency (%)	46.9	46.0	42.7	-	-	-	-	-	-	-

3.2.2. Peak Gain



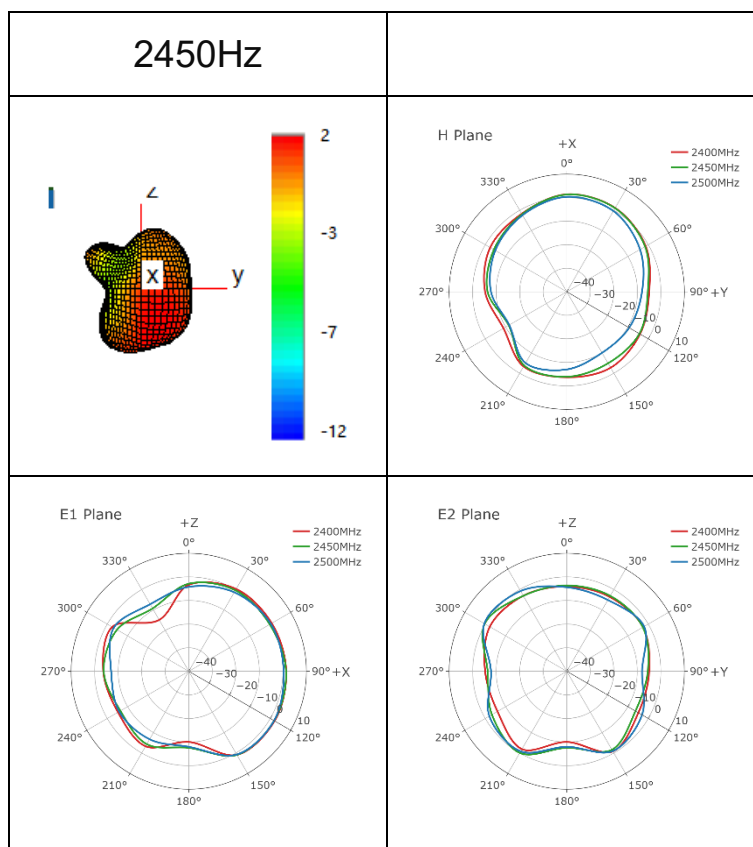
Peak Gain (dBi)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6525	7125	-
Peak Gain (dBi)	2.1	1.9	1.9	-	-	-	-	-	-	-


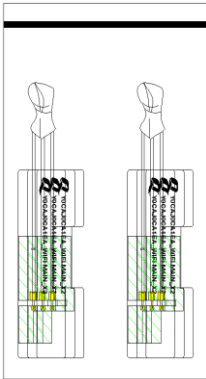
3.2.3. 2D Radiation Pattern

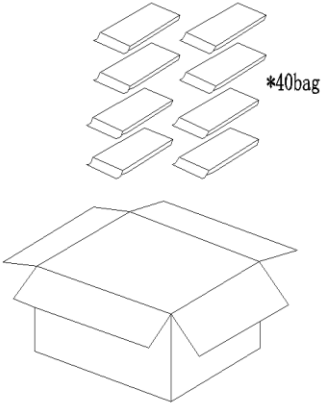
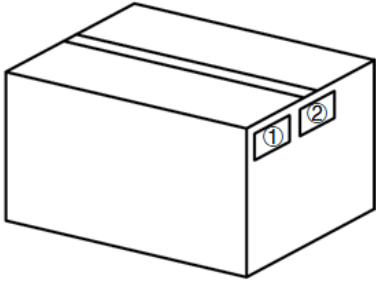
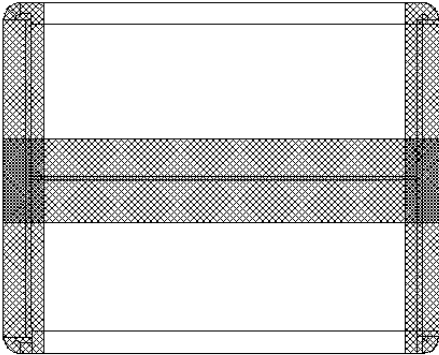
- Test Condition: Assembled in test device
- Test Chamber: HF-G-1





4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		Product drawing
2		100 pcs antenna products in a PE bag (100 PCS Antennas / PE Bag)

3		<p>40 PE Bags / Carton Box (4000 PCS Antennas / Carton Box) Estimated quantity Products that cannot fill the entire carton box are packed in a suitable size carton box. <u>Carton Size:</u> <u>L × W × H = 325 × 325 × 200 mm</u></p>
4		<p>Position for Attaching Labels ① Carton Label ② Quality Label</p>
5		<p>Sealing Cartons “工” type sealing cartons</p>
Note	<p>The initial packaging method described above is for reference only, and the final actual packaging method shall be subject to the actual shipping packaging.</p>	

Contact Us

At Quectel, our aim is to provide timely and comprehensive services to our customers. If you require any assistance, please contact our headquarters:

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Revision History

Version	Date	Author	Note
-	2024-09-22	Raoul RAO/ Joye WANG/ David LIU/ Aria CHU	Creation of the document
1.0	2024-09-22	Raoul RAO/ Joye WANG/ David LIU/ Aria CHU	First official release



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