



Antenna Datasheet

Product OC: Y0REB0CC2FA

Version: 1.0

Date: 2025-08-18

Product Name: Embedded WIFI Antenna

Key Features:

Frequency Band: 2400–2500 MHz

Dimensions: 26.73 mm × 14.85mm × 0.13 mm

Efficiency: Up to 34.7%

RoHS Compliant

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1 Specification

Test Condition: Assembled in test device

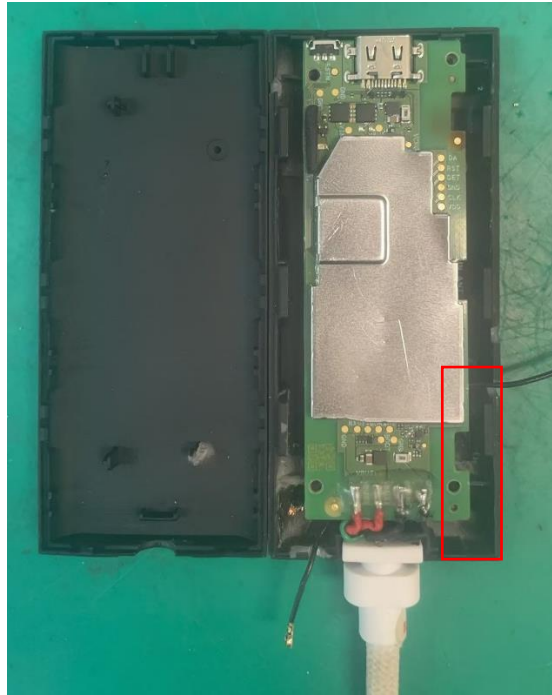
1.1. Electrical

Electrical	
Frequency Range	2400–2500 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional
VSWR	≤ 2.5
Peak Gain	-0.5 dBi

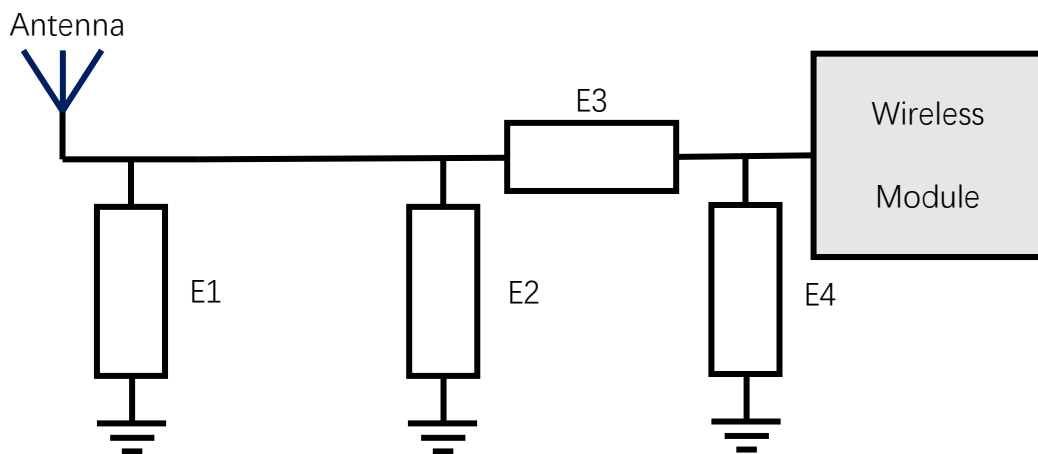
1.2. Mechanical & Environmental

Mechanical	
Antenna Dimensions	26.73 mm × 14.85 mm × 0.13 mm
Material & Color	FPC & Black
Weight	Typ. 0.1 g
Mounting Type	Adhesive
Environmental	
Operation Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C
RoHS Compliant	Yes

1.3. Antenna Assembly

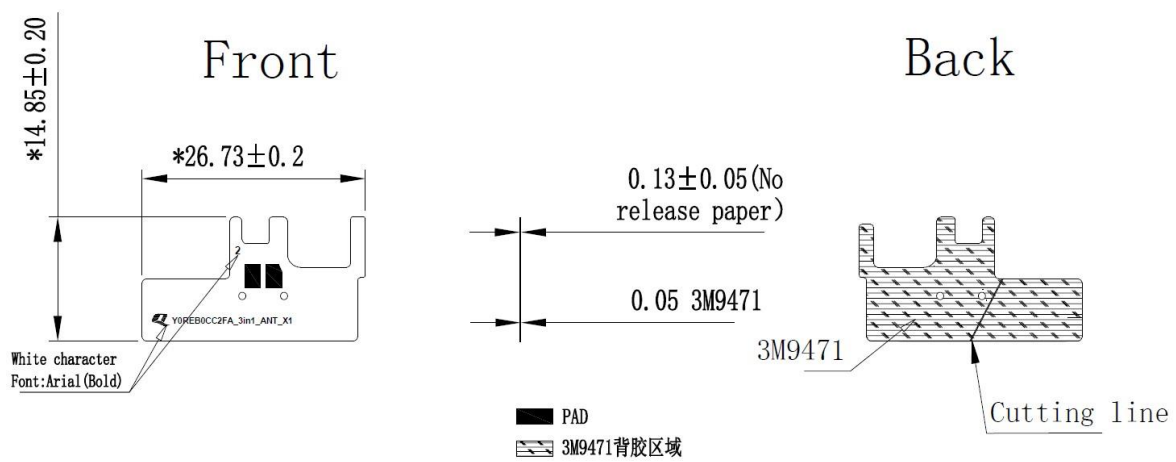


1.4. Matching Circuit



	E1	E1	E3	E4
Default Matching	DNI	DNI	0om	DNI
Tolerance	N/A	N/A	±5 %	N/A

2 Drawing

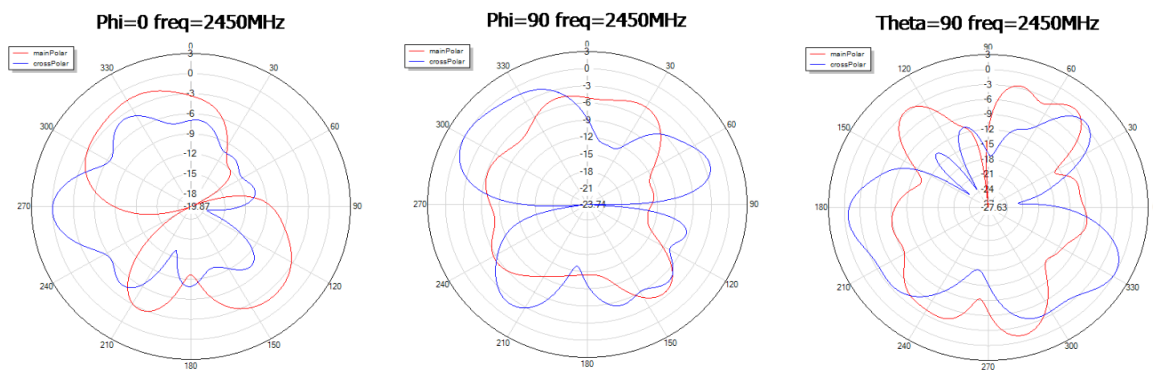


3 Detailed Performance

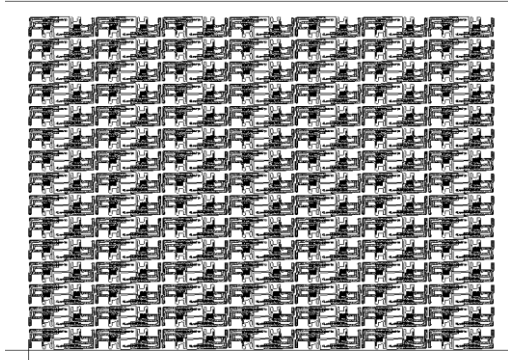
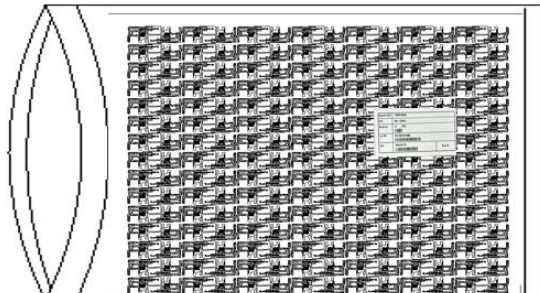
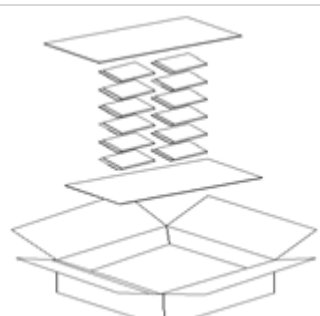
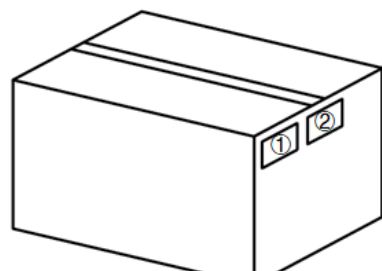
3.1. Gain and Efficiency

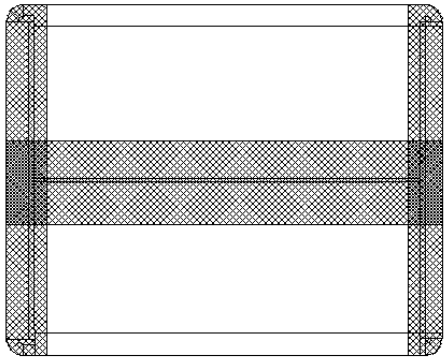
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-1.9	-6.1	24.6
2410	-1.4	-5.6	27.3
2420	-1.1	-5.3	29.3
2430	-0.9	-5.2	30.5
2440	-0.7	-4.9	32.1
2450	-0.6	-4.9	32.6
2460	-0.3	-4.6	34.7
2470	-0.6	-4.9	32.5
2480	-0.6	-4.9	32.2
2490	-0.5	-5.0	31.5
2500	-1.0	-5.2	29.9

3.1. Pattern



4 Packaging

Step	Packaging Picture / 2D Picture	Description
1	 260*332=210	Micro-film packaging 210 antennas in a film.
2		20 films in a PE bag. (4200 Antennas / PE Bag)
3		(15 PE Bags / Carton Box) (63000 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 = 370 × 270 × 140 mm</u>
4		Position for Attaching Labels ① Carton Label ② Quality Label

5		Sealing Cartons H-shaped sealing cartons
Note	The initial packaging method described above is for reference only, and the final actual packaging method shall be subject to the actual shipping packaging.	

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
-	2025-08-18	Dewei Ni/ Mike Guo/ Riva Ren/ Rainey Liao	Creation of the document
1.0	2025-08-18	Dewei Ni/ Mike Guo/ Riva Ren/ Rainey Liao	First official release



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