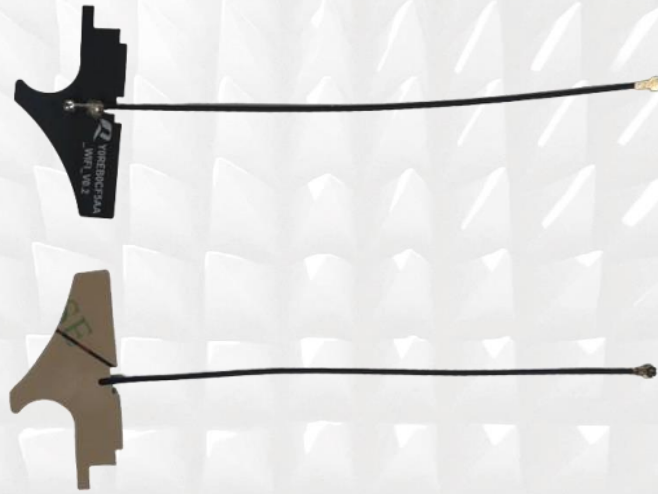




Antenna Datasheet

Product OC: Y0REB0CF5AA

Version: 1.0

Date: 2026-07-28

Product Name: WIFI FPC + Cable Antenna

Key Features:

Frequency Band: 2400–2500 MHz & 5150–5850 MHz

Dimensions: 28.16 mm × 14.42 mm

Efficiency: Up to 46.27%

RoHS 2.0 Compliant

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1 Specification

Test Condition: Assembled in test device

1.1. Electrical

Electrical	
Frequency Range	2400–2500 MHz & 5150–5850 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional
VSWR	≤ 2.5
Peak Gain	2.9 dBi @2.45GH, 3.5 dBi @5.68GHz

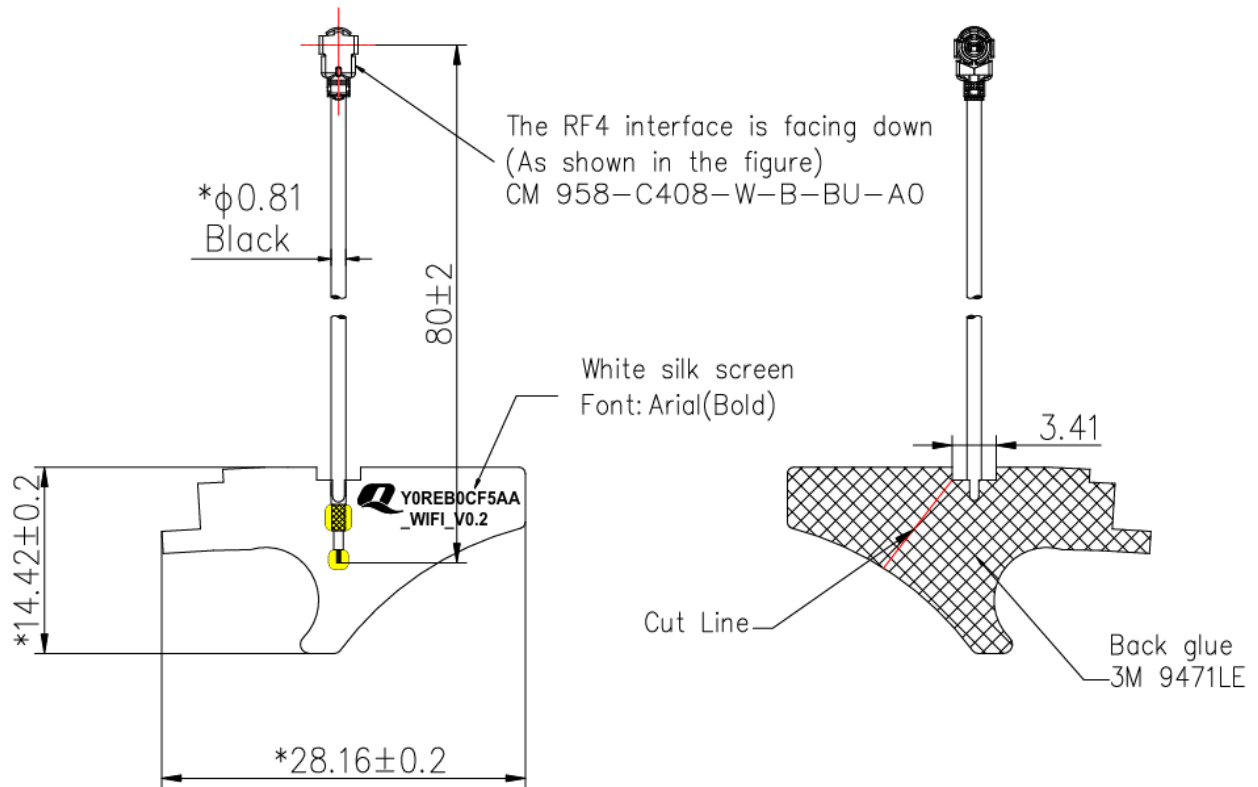
1.2. Mechanical & Environmental

Mechanical	
Antenna Dimensions	28.16 mm × 14.42 mm
Material & Color	FPC & Black
Cable Type & Color & Length	Φ 0.81 & Black & 80 mm
Connector Type	RF 4
Mounting Type	Adhesive
Weight	Typ. 0.2 g
Environmental	
Operation Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C
RoHS 2.0 Compliant	Yes

1.3. Antenna Assembly



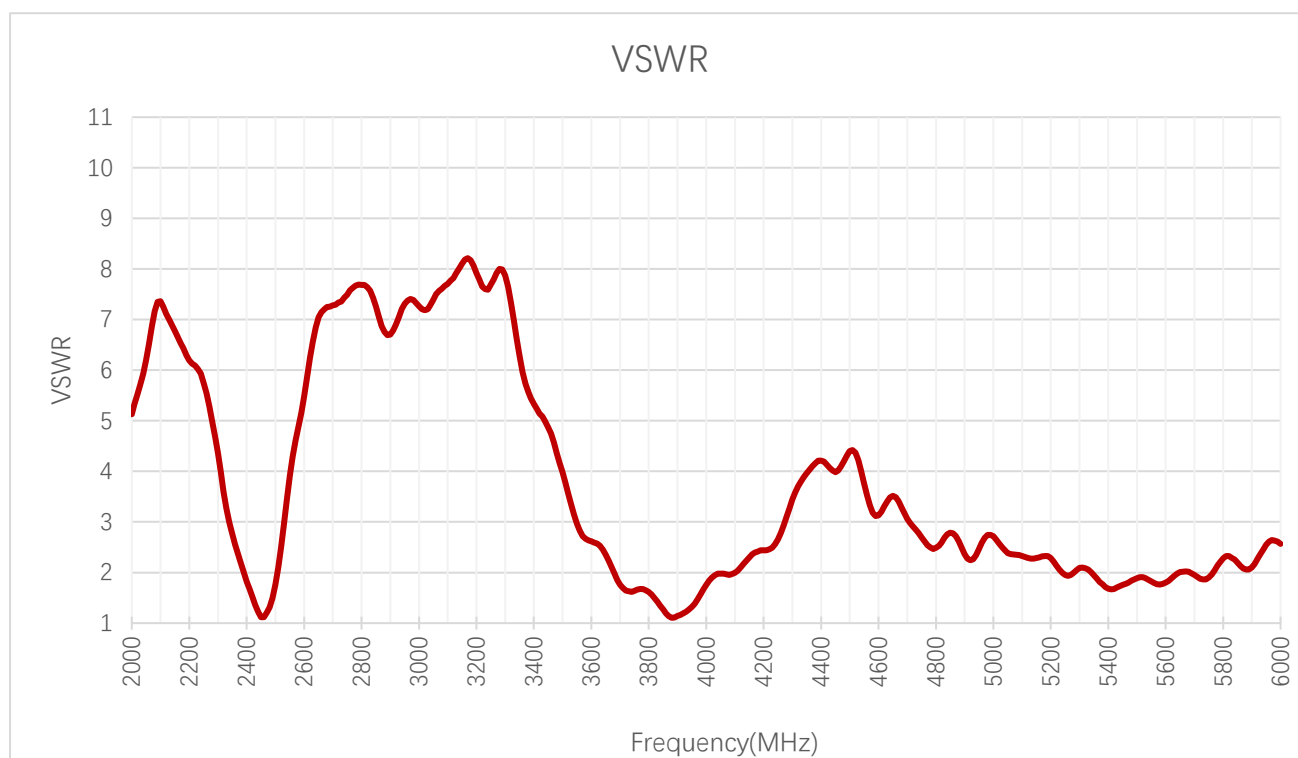
2 Drawing



3 Detailed Performance

3.1. S-Parameter Test

3.1.1. VSWR

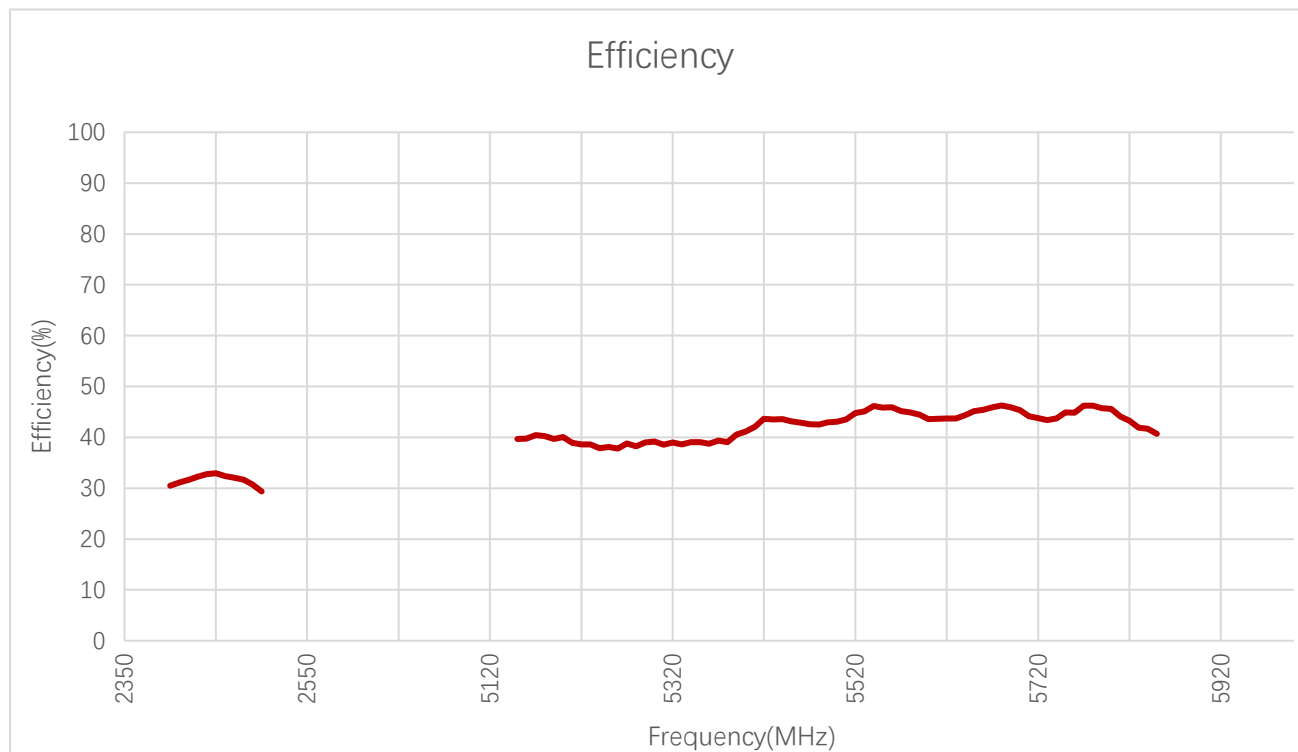


VSWR

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
VSWR	1.8	1.1	1.8	2.3	1.9	2.2	-	-	-	-

3.2. Radiation Performance Test

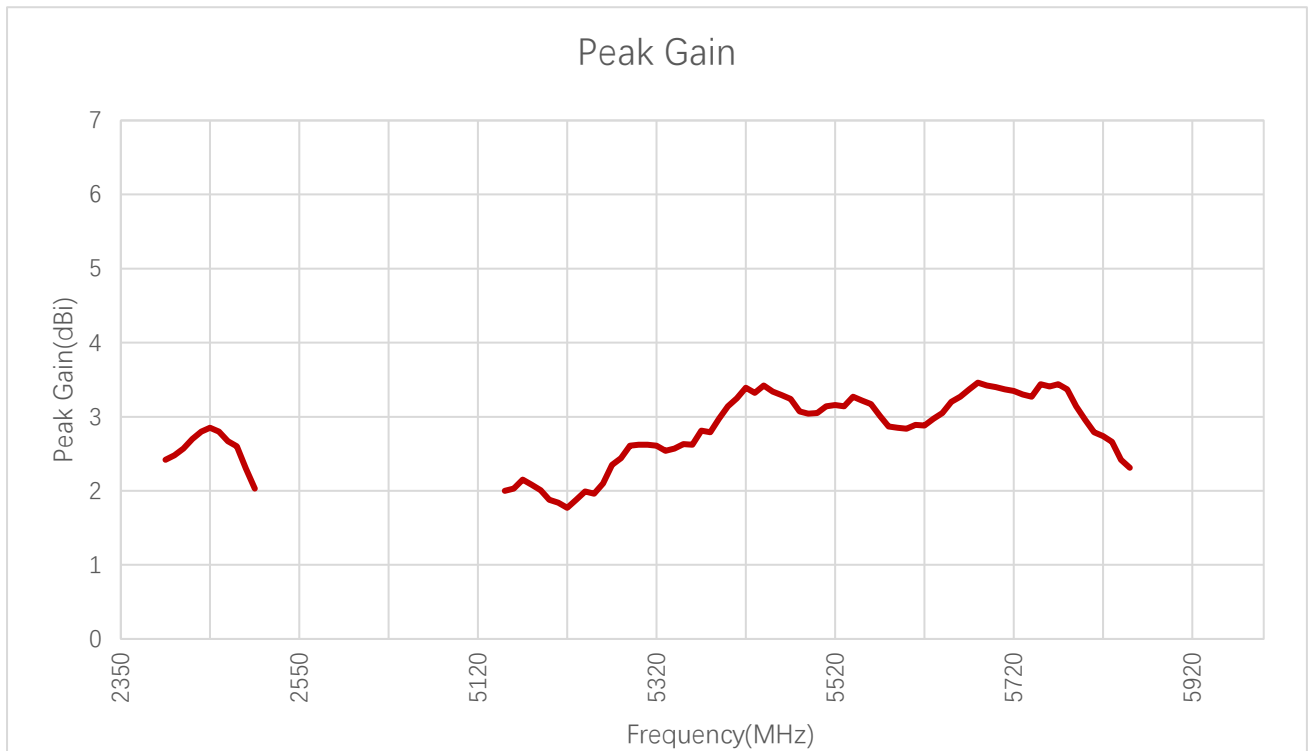
3.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Efficiency (%)	30.5	33.0	29.4	39.7	43.1	40.7	-	-	-	-

3.2.2. Peak Gain



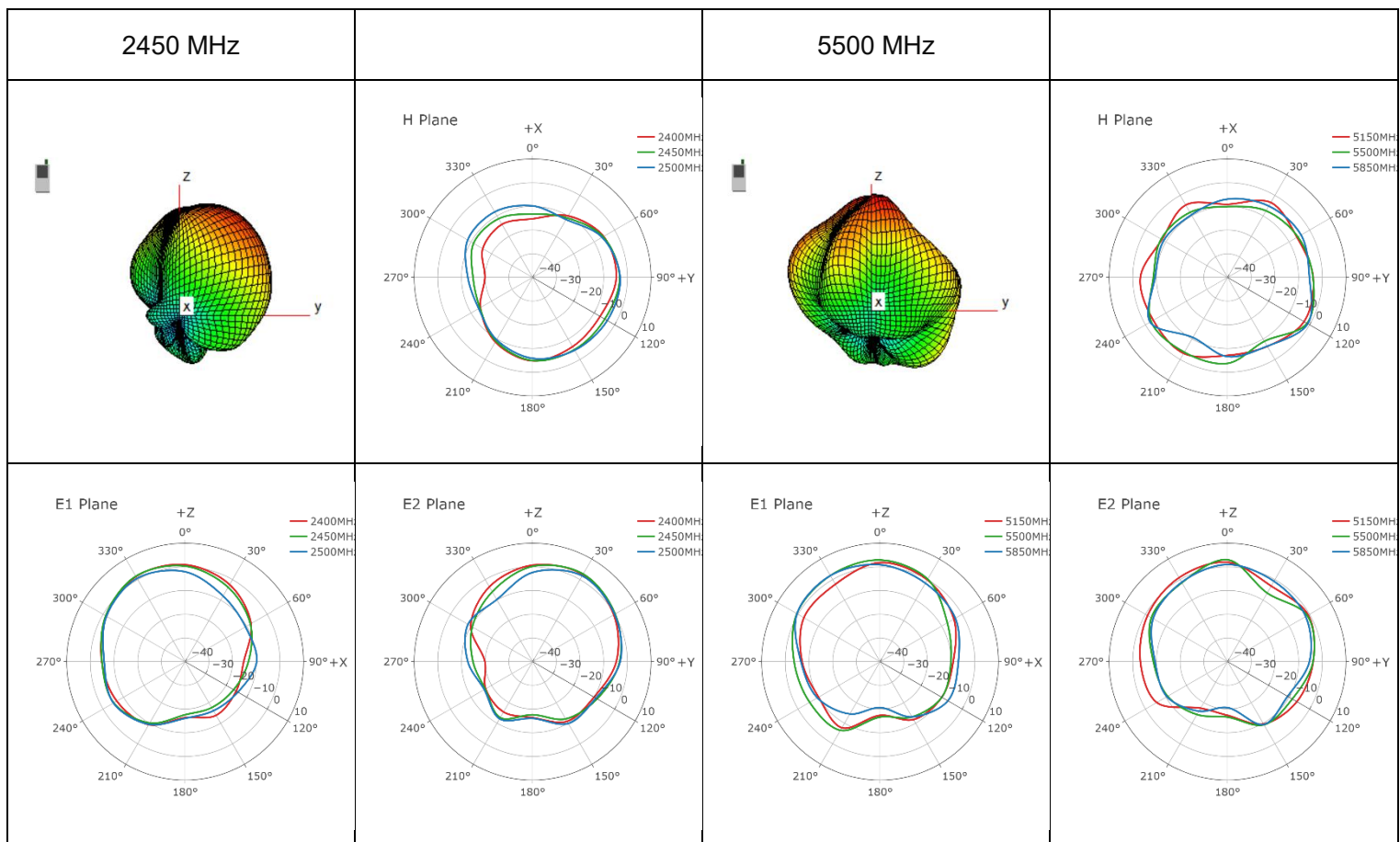
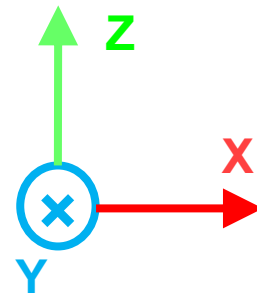
Peak Gain (dBi)

Frequency (MHz)	2400	2450 MAX	2500	5150	5500	5850	5680 MAX	6325	6725	7125
Peak Gain (dBi)	2.4	2.9	2.0	2.0	3.1	2.3	3.5	-	-	-

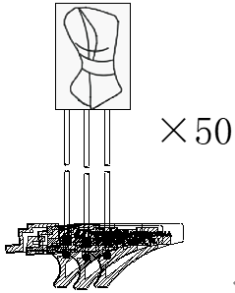
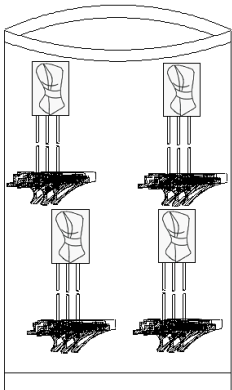
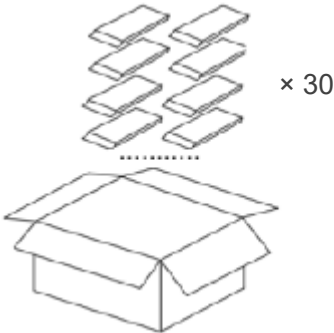
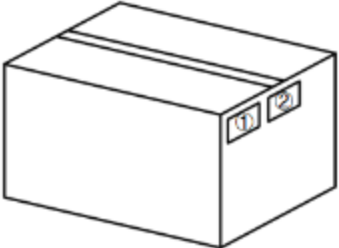
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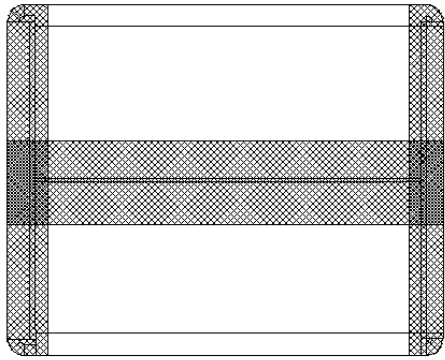
3.2.3. 2D Radiation Pattern

- Test Condition: Assembled in test device
- Test Chamber: FS-S-1



4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		50 products in a bundle
2		200 Antenna products in a PE bags; 200 Antennas / Per PE Bag;
3		30 PE Bag / Per Carton Box (6000 Antennas / Per Carton Box) Estimated quantity Products that are not full will be packaged in suitable cardboard boxes <u>Carton Size:</u> <u>L × W × H = 405 × 293 × 185 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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Email: info@quectel.com

Or our local offices. For more information, please visit:

<https://www.quectel.com/contact/>.

For technical support, or to report documentation errors, please visit:

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Revision History

Version	Date	Author	Note
-	2026-07-28	Owen Deng/ Harvey Zhang/ Kessie Geng/ Rainey Liao	Creation of the document
1.0	2026-07-28	Owen Deng/ Harvey Zhang/ Kessie Geng/ Rainey Liao	First official release



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