



Antenna Datasheet

Product OC: Y0REB0CF5CA

Version: 1.0

Date: 2026-05-29

Product Name: GNSS FPC + Cable Antenna

Key Features:

Frequency Band: 1575.42 MHz

Dimensions: 21.43 mm × 19 mm

Efficiency: Up to 39.13 %

RoHS 2.0 Compliant

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1 Specification

Test Condition: Assembled in test device

1.1. Electrical

Electrical	
Frequency Range	1575.42 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional
VSWR	≤ 1.2
Peak Gain	-1.3 dBi

1.2. Mechanical & Environmental

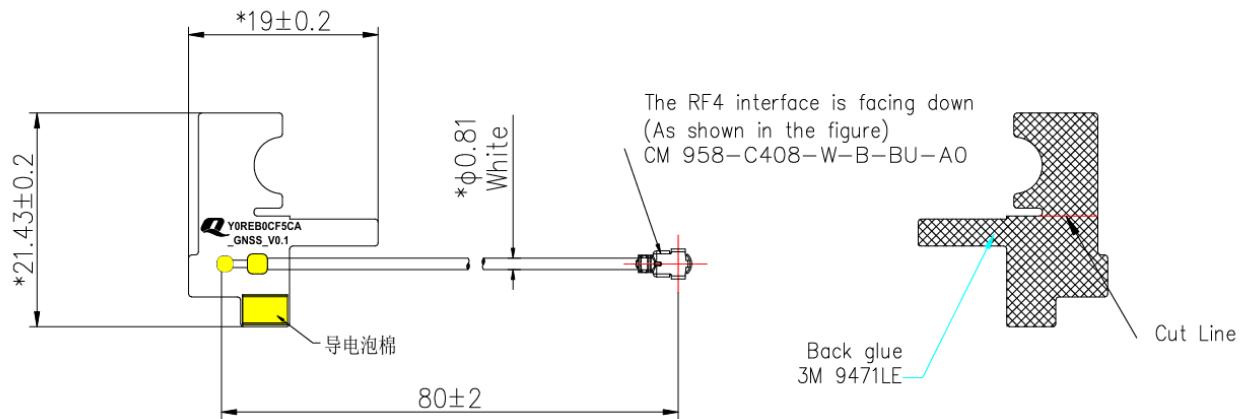
Mechanical	
Antenna Dimensions	21.43 mm $\times$ 19 mm
Material & Color	FPC & Black
Cable Type & Color & Length	Φ 0.81 & White & 80mm
Connector Type	RF 4
Mounting Type	Adhesive
Weight	Typ. 0.25 g
Environmental	
Operation Temperature	-40 $^{\circ}$ C to +85 $^{\circ}$ C

Storage Temperature	-40 °C to +85 °C
RoHS 2.0 Compliant	Yes

1.3. Antenna Assembly



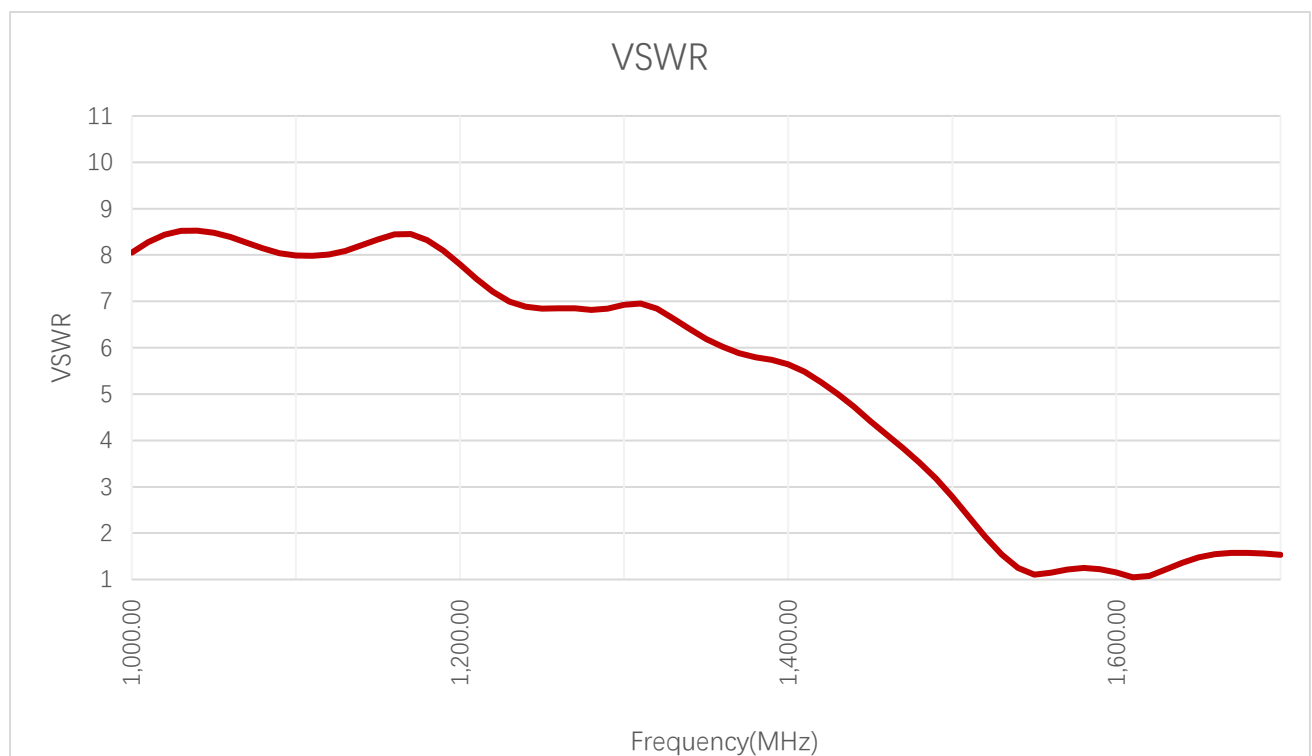
2 Drawing



3 Detailed Performance

3.1. S-Parameter Test

3.1.1. VSWR

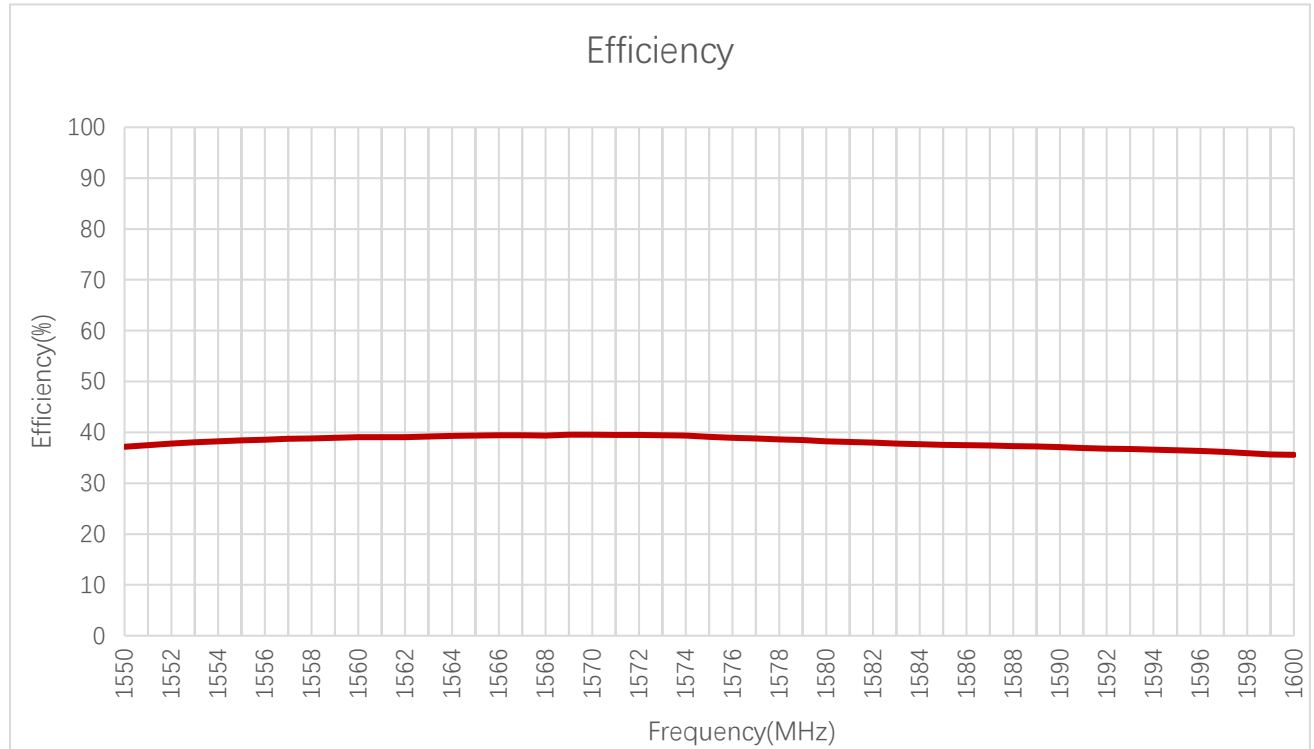


VSWR

Frequency (MHz)	1570	1575	1580							
VSWR	1.2	1.2	1.2							

3.2. Radiation Performance Test

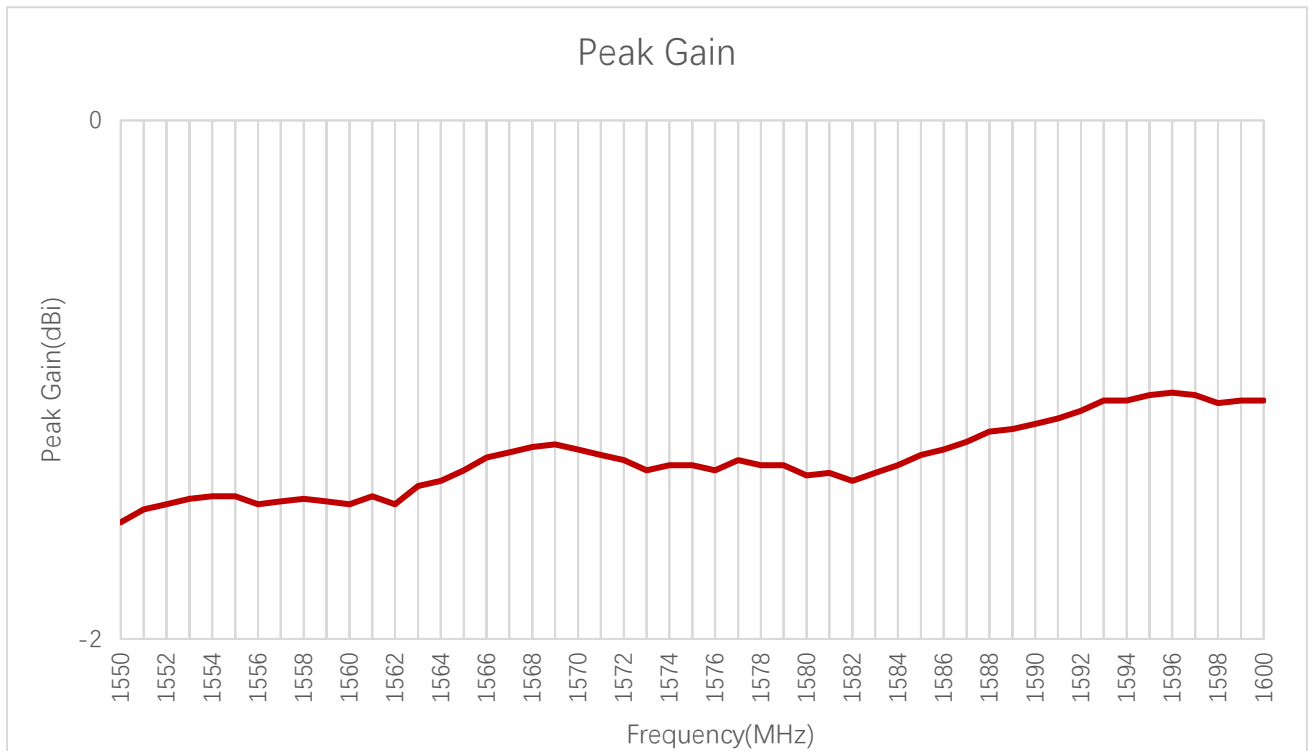
3.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	1570	1575	1580							
Efficiency (%)	39.5	39.5	38.3							

3.2.2. Peak Gain

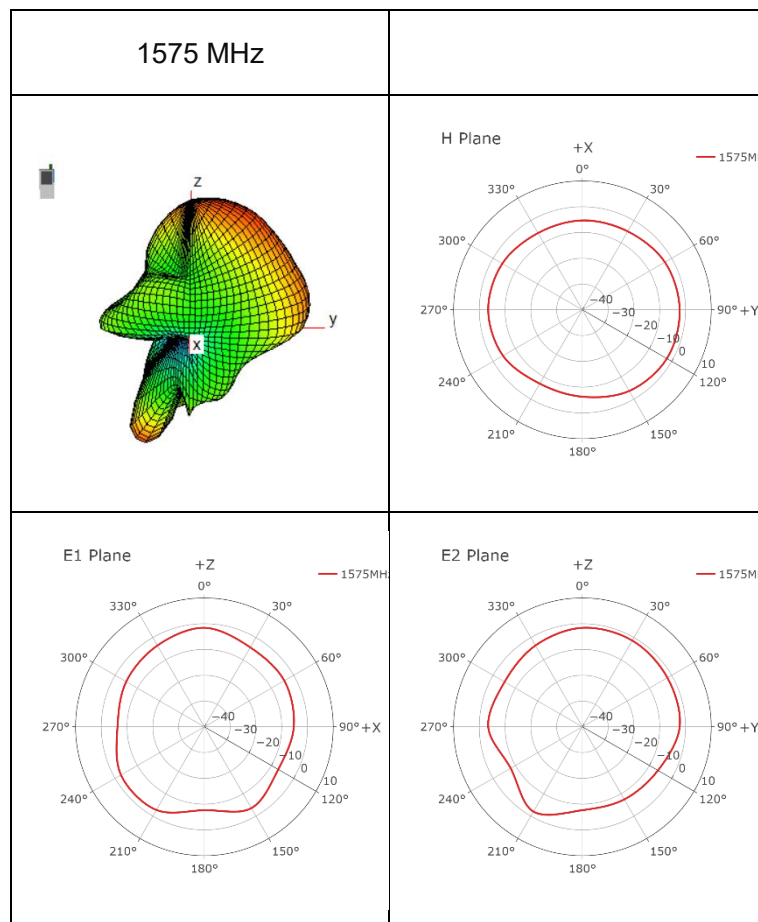
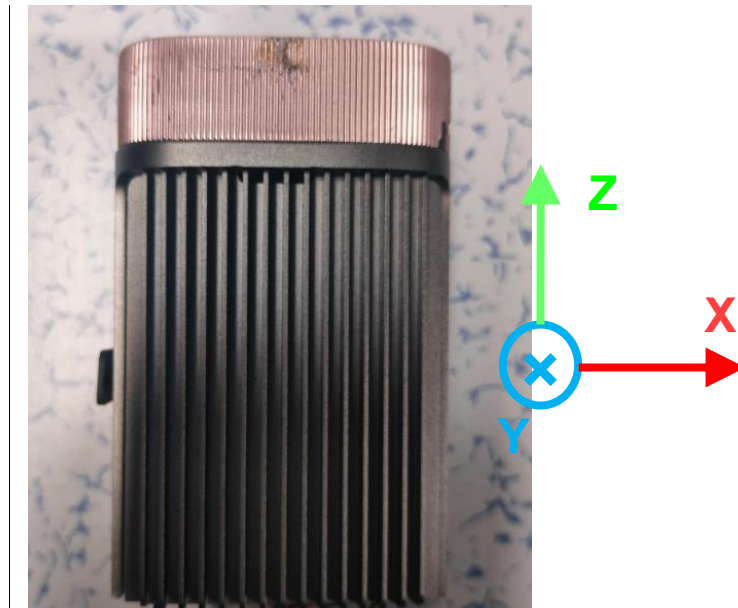


Peak Gain (dBi)

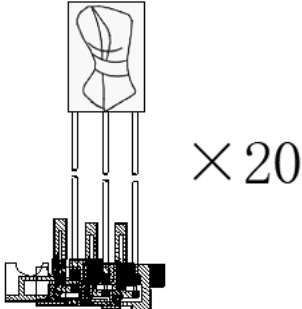
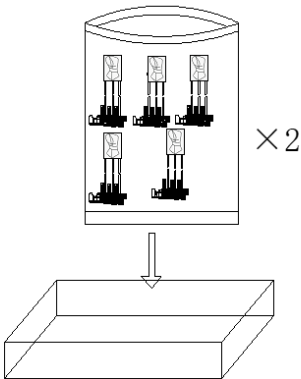
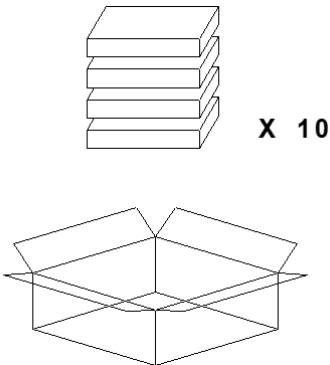
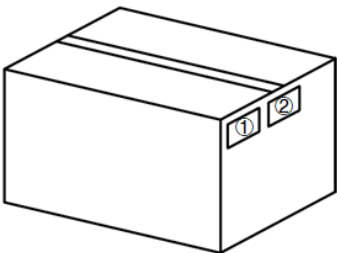
Frequency (MHz)	1570	1575	1580							
Peak Gain (dBi)	-1.3	-1.3	-1.4							

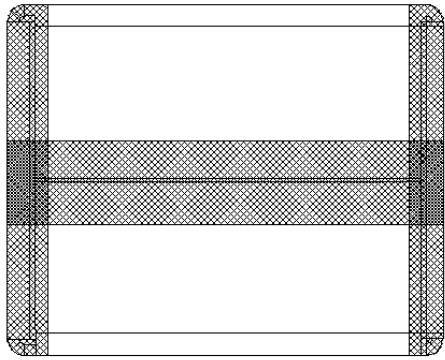
3.2.3. 2D Radiation Pattern

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



4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		20 products in a bundle
2		Each PE bag contains 100 products. (100 Antennas / PE bag) Then place 2 PE bags into the blister packs. (200 Antennas / Per blister pack)
3		10 blister pack/ Per Carton Box (2000 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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Revision History

Version	Date	Author	Note
-	2026-05-29	Owen Deng/ Harvey Zhang/ Kessie Geng/ Rainey Liao	Creation of the document
1.0	2026-05-29	Owen Deng/ Harvey Zhang/ Kessie Geng/ Rainey Liao	First official release



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