



Antenna Datasheet

Product OC: Y4RRW0MA7AA (Gtech-Dolores T2 device)

Version: 1.0

Date: 2026-04-23

Product Name: Internal BT Antenna

Key Features:

Frequency Band: 2400–2500 MHz

Dimensions: 9 mm × 4 mm × 5.5 mm

Efficiency: Up to 58.1 % (On free space)

RoHS and REACH Compliant

Contents

Contents	1
1 Specification	2
1.1. Electrical	2
1.2. Mechanical & Environmental	2
1.3. Antenna Assembly	3
1.4. Matching Circuit	3
2 Drawing	4
3 Detailed Performance	5
3.1. S-Parameter Test	5
3.1.1. VSWR	5
3.1.2. Return Loss	6
3.2. Radiation Performance Test	7
3.2.1. Efficiency	7
3.2.2. Peak Gain	8
3.2.3. 3D & 2D Radiation Pattern	9
4 Packaging	11
Contact Us	13
Legal Notices	14
Revision History	16

1 Specification

Test Condition: Assembled in test device (Gtech-Dolores T2)

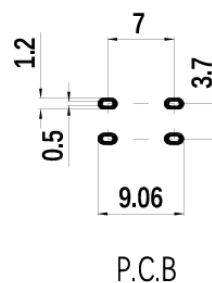
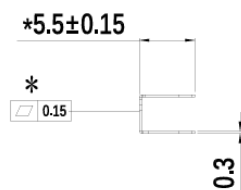
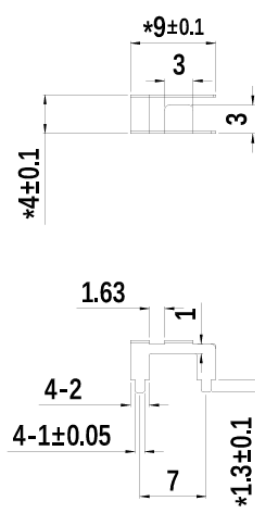
1.1. Electrical

Electrical	
Frequency Range	2400–2500 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional
Antenna Type	Metal Antenna
VSWR	≤ 1.8
Peak Gain	2.2dBi

1.2. Mechanical & Environmental

Mechanical	
Antenna Dimensions	9 mm × 4 mm × 5.5 mm
Material & Color	SUS430 & Natural
Mounting Type	Soldering
Weight	Typ. 0.135 g
Environmental	
Operation Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C
RoHS and REACH Compliant	Yes

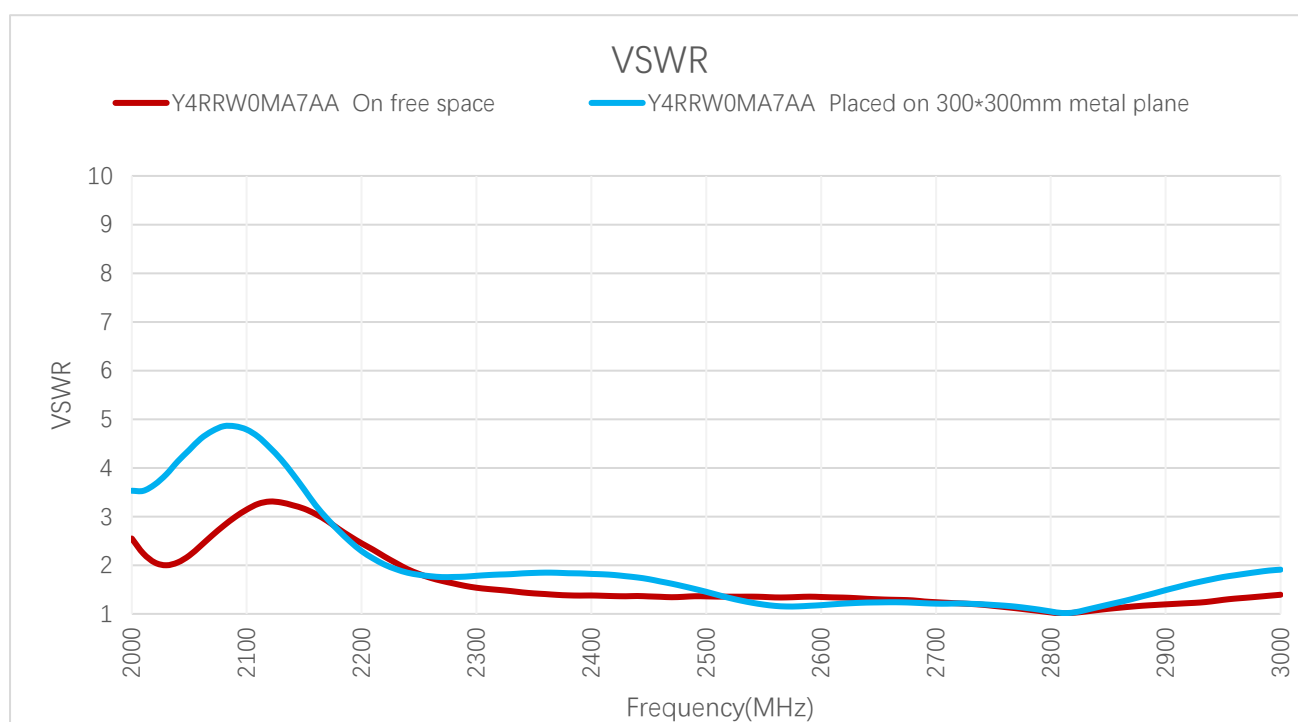
2 Drawing



3 Detailed Performance

3.1. S-Parameter Test

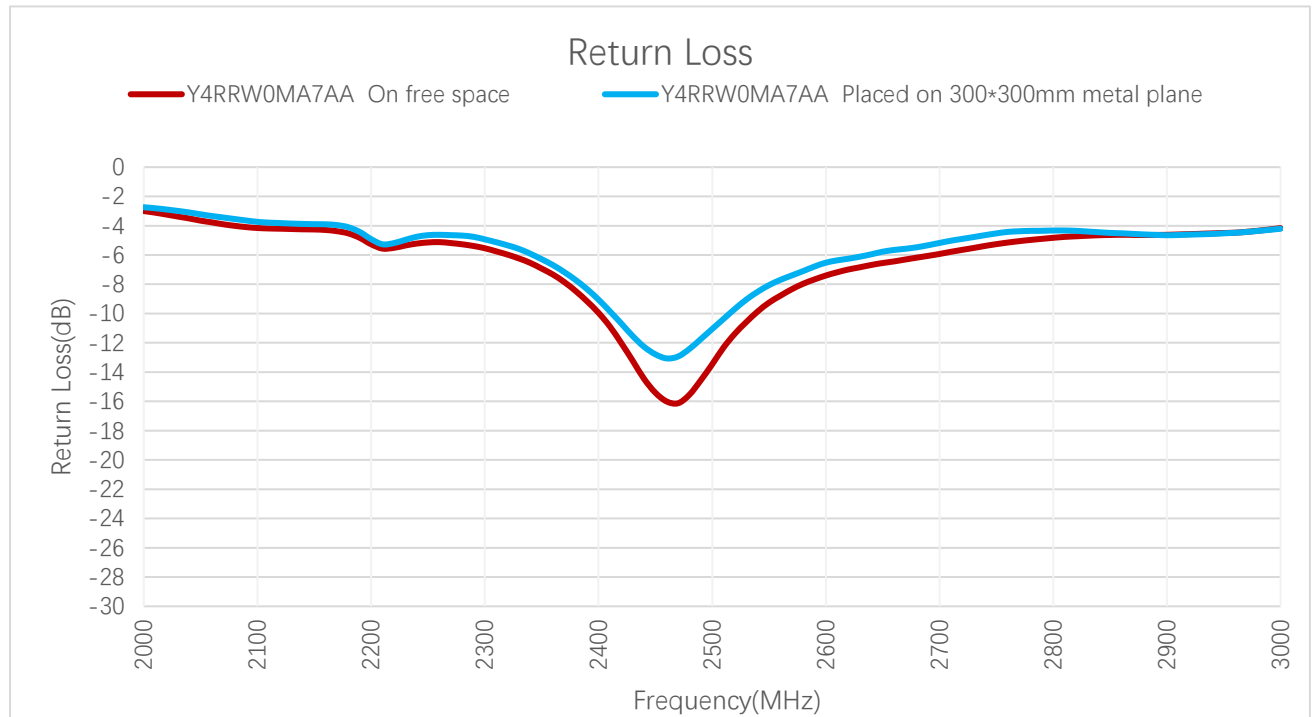
3.1.1. VSWR



VSWR

Frequency (MHz)	2400	2450	2500	5150	5500	5850
FS	1.4	1.4	1.4	-	-	-
MP	1.8	1.7	1.4	-	-	-

3.1.2. Return Loss

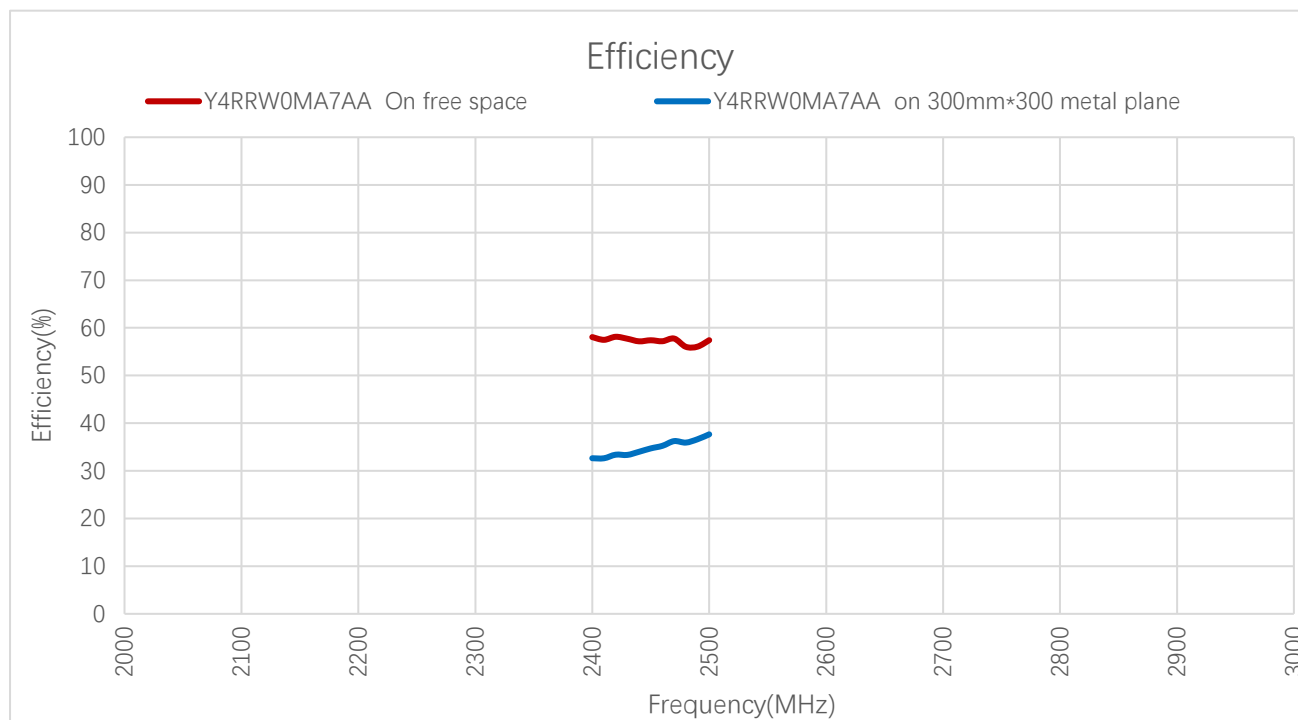


VSWR

Frequency (MHz)	2400	2450	2500	5150	5500	5850
FS	-10	-15.4	-13.5	-	-	-
MP	-9	-12.8	-11.1	-	-	-

3.2. Radiation Performance Test

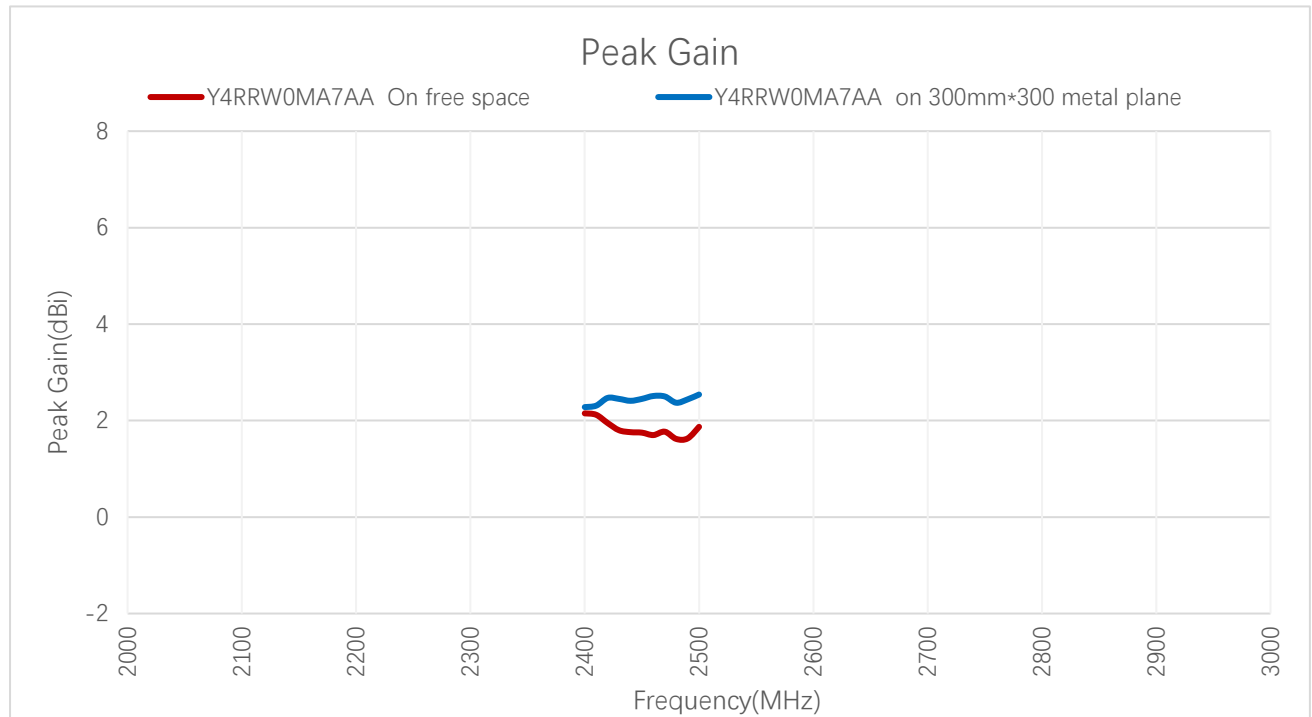
3.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	2400	2450	2500	5150	5500	5850
FS	58.1	57.4	57.4	-	-	-
MP	32.6	34.7	37.7	-	-	-

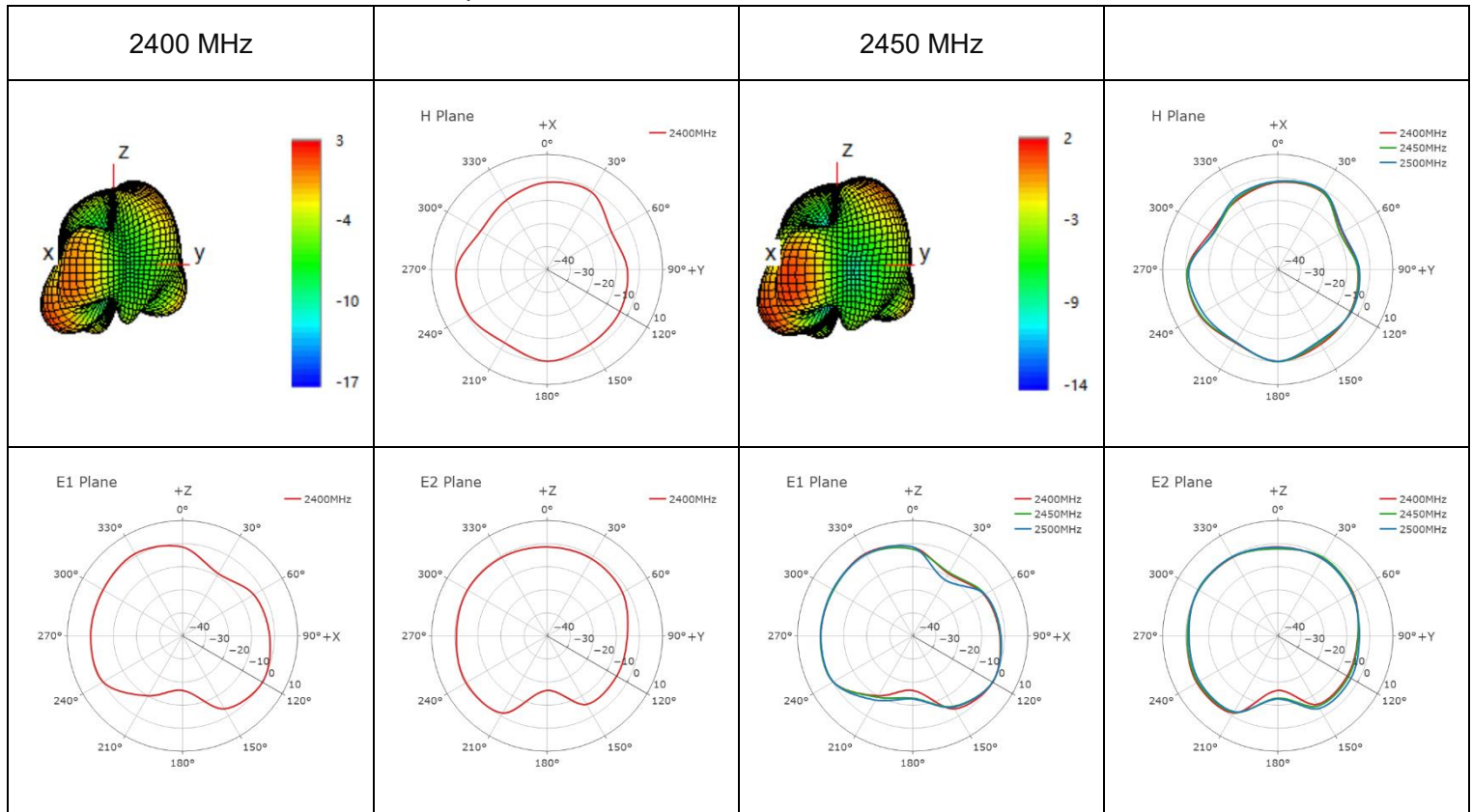
3.2.2. Peak Gain



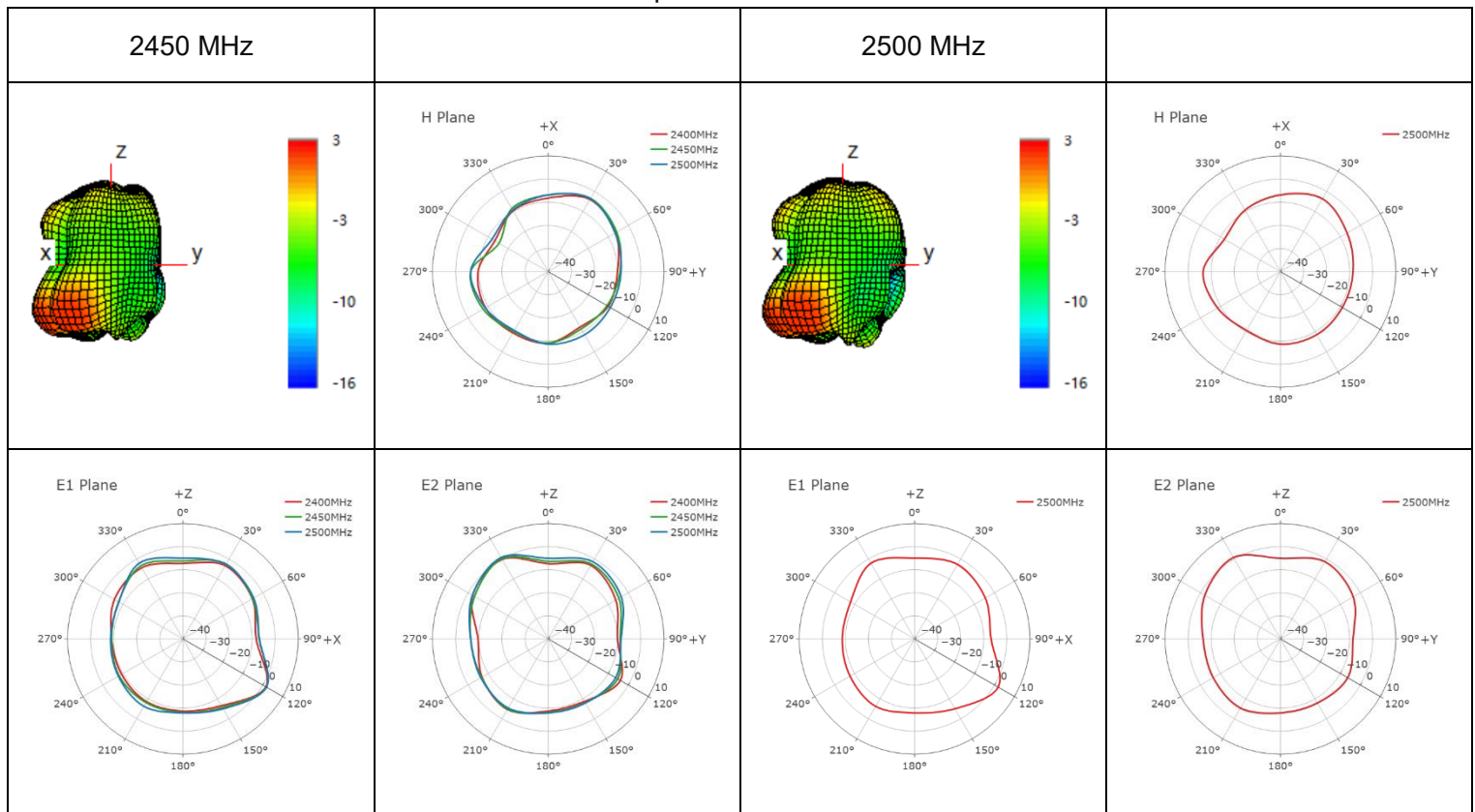
Peak Gain (dBi)

Frequency (MHz)	2400	2410	2420	2430	2440	2450
FS	2.2	2.1	2.0	1.8	1.8	1.8
MP	2.3	2.3	2.5	2.5	2.4	2.5
Frequency (MHz)	2460	2470	2480	2490	2500	
FS	1.7	1.8	1.6	1.6	1.9	
MP	2.5	2.5	2.4	2.4	2.5	

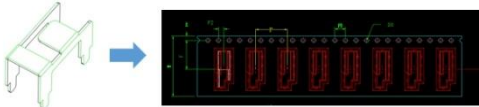
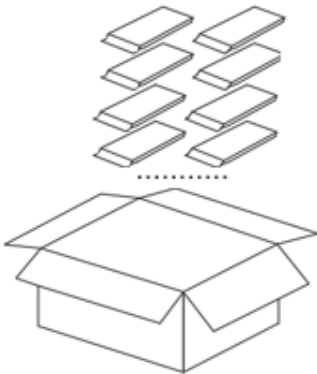
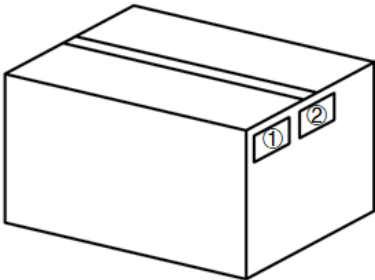
● Test Condition: On free space

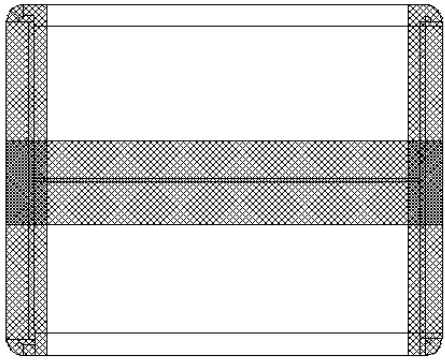


● Test Condition: On 300 mm × 300 metal plane



4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		Reel
2		One reel of products is placed in an inner box. (1400 Antennas / Reel) (1400 Antennas / Inner Boxes)
3		(18 Inner Boxes / Carton Box) (25200 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 = 520 × 338 × 340 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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Or our local offices. For more information, please visit:

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Revision History

Version	Date	Author	Note
-	2026-04-23	Edwin Xiao/ Steven Mo/ Kessie Geng/ Rainey Liao	Creation of the document
1.0	2026-04-23	Edwin Xiao/ Steven Mo/ Kessie Geng/ Rainey Liao	First official release



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