

## **Antenna Datasheet**

Product OC: Y0RGH0CA3EA

Version: 1.0

Date: 2025-03-06

Product Name: WIFI Antenna

**Key Features:** 

Frequency Band: 2400–2500 MHz

Dimensions: 38.0 mm × 10.0 mm × 0.13 mm

Efficiency: Up to 46.7 %

**RoHS Compliant** 



## **Contents**

Co	ntents		1		
1	Specific	ation	2		
	1.1. EI	lectrical	2		
	1.2. M	echanical & Environmental	2		
	1.3. Ar	ntenna Assembly	3		
2		J			
3		Performance			
	3.1. S-Parameter Test				
		1. VSWR			
		adiation Performance Test			
	3.2.	1. Efficiency	6		
	3.2.2	2. Peak Gain	7		
4	Packagi	ng	8		
Со	ntact Us		10		
Le	gal Notice	?S	11		
		story			



## 1 Specification

**Test Condition: Assembled in test device** 

### 1.1. Electrical

Electrical					
Frequency Range	2400–2500MHz				
Impedance	50 Ω				
Polarization	Linear				
Radiation Pattern	Omni-directional				
VSWR	≤ 2				
Peak Gain	2.55 dBi				

### 1.2. Mechanical & Environmental

Mechanical					
Antenna Dimensions	38.0 mm × 10.0 mm × 0.13 mm				
Material & Color	FPC & Black				
Mounting Type	Ф 1.13 & Black & 86 mm				
Connector Type	RF 1				
Mounting Type	Adhesive				
Weight	Typ. 0.45 g				
Environmental					
Operation Temperature	-40 °C to +85 °C				
Storage Temperature	-40 °C to +85 °C				

Antenna\_Datasheet 2 / 13



RoHS Compliant	Yes
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### 1.3. Antenna Assembly

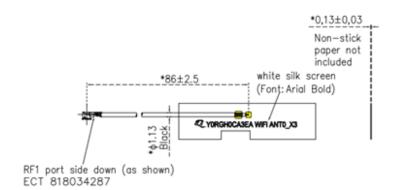


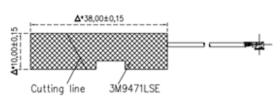
Y0RGH0CA3EA

Antenna\_Datasheet 3 / 13



# 2 Drawing





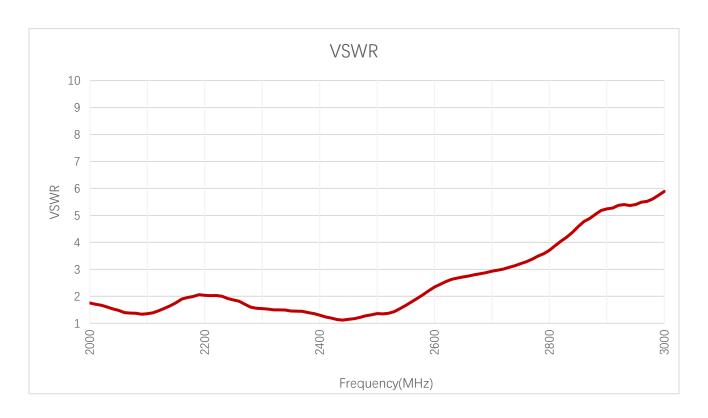
Antenna\_Datasheet 4 / 13



## 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	1.3	1.1	1.4	_	-	-	-	-	-

Antenna\_Datasheet 5 / 13



### 3.2. Radiation Performance Test

### 3.2.1. Efficiency



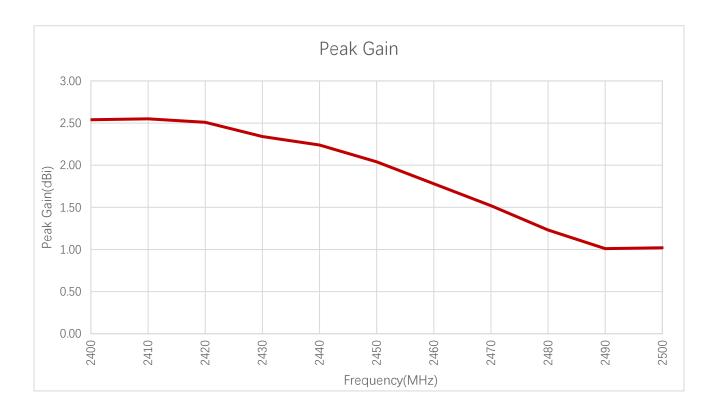
### Efficiency (%)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6525	7125
Efficiency (%)	45.9	46.7	44.1	-	-	-	-	-	-

Antenna\_Datasheet 6 / 13



### 3.2.2. Peak Gain



### Peak Gain (dBi)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6525	7125
Peak Gain (dBi)	2.55	2.04	1.02	-	-	-	-	-	-

Antenna\_Datasheet 7 / 13

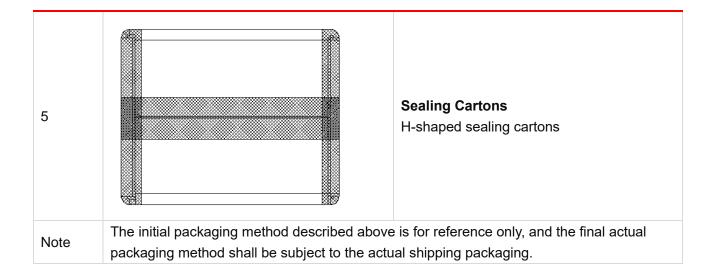


# 4 Packaging

Step	Packaging Picture / 2D Picture	Description
1	EZ YORGETCANIA WET ANTO JA	Product drawing
2		100 pcs antenna products in a PE bag. (100 PCS Antennas / PE Bag)
3	*60bag	(60 PE Bags / Carton Box) (6000 PCS Antennas / Carton Box) Estimated quantity Products that cannot fill the entire carton box are packed in a suitable size carton box.  Carton Size: L × W × H = 325 × 325 × 200 mm
4		Position for Attaching Labels  ① Carton Label ② Quality Label

Antenna\_Datasheet 8 / 13





Antenna\_Datasheet 9 / 13



## **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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Antenna\_Datasheet 10 / 13



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Antenna\_Datasheet 11 / 13



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Antenna\_Datasheet 12 / 13



## **Revision History**

Version	Date	Author	Note
-	2025-03-06	Lyney LIN/ Shea LI/ Riva REN/ Aria CHU	Creation of the document
1.0	2025-03-06	Lyney LIN/ Shea LI/ Riva REN/ Aria CHU	First official release

Antenna\_Datasheet 13 / 13



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