

## **Antenna Datasheet**

Product OC: Y0DPW00A0BA

Version: 1.1

**Date:** 2025-09-02

Product Name: WIFI Adhesive FPC PIFA Antenna

**Key Features:** 

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

Dimensions: 30.23 mm × 14.85 mm

Efficiency: Up to 44 %

ROHS and REACH 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	≤ 2.2				
Peak Gain	2.9 dBi				

## 1.2. Mechanical & Environmental

Mechanical					
Antenna Dimensions	30.23 mm × 14.85 mm				
Material & Color	FPC & Black				
Weight	Typ. 0.05 g				
Mounting Type	Adhesive				
Environmental					
Operation Temperature	-40 °C to +85 °C				
Storage Temperature	-40 °C to +85 °C				
RoHS & REACH Compliant	Yes				

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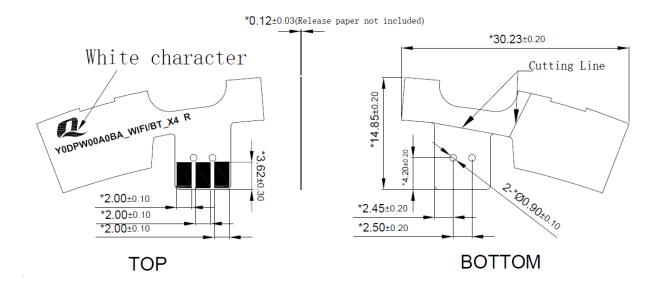
## 1.3. Antenna Assembly



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# 2 Drawing



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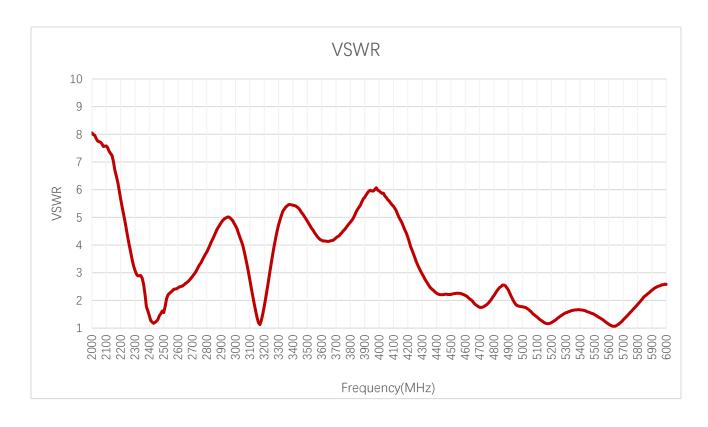


## 3 Detailed Performance

Manufacturer: Quectel Wireless Solutions (Changzhou) Co., Ltd.
 Address: No.8 Nanhu West Road, Wujin District, Changzhou City, Jiangsu Province, China

## 3.1. S-Parameter Test

### 3.1.1. VSWR



#### **VSWR**

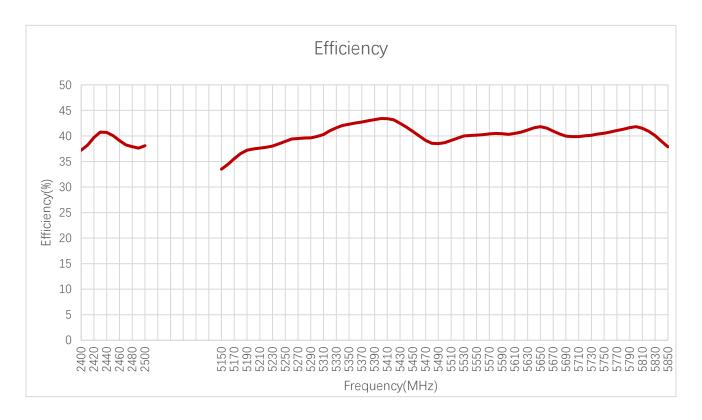
Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
VSWR	1.5	1.2	1.6	1.2	1.5	2.2	-	_	_	-

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## 3.2. Radiation Performance Test

## 3.2.1. Efficiency



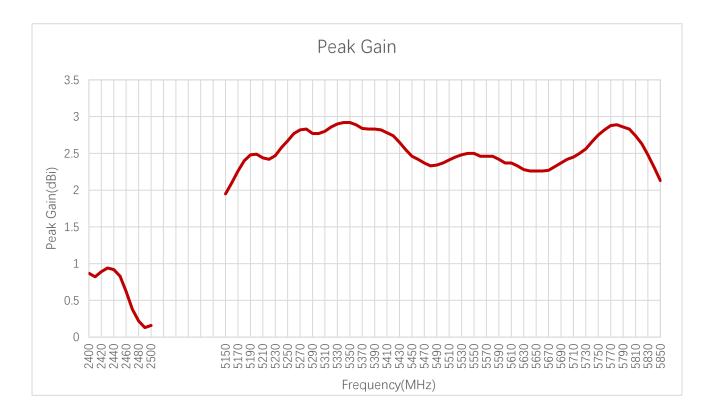
## Efficiency (%)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Efficiency (%)	37.2	40.1	38.1	33.5	38.7	37.9	-	-	-	-

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### 3.2.2. Peak Gain



## Peak Gain (dBi)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Peak Gain (dBi)	0.9	0.8	0.2	2.0	2.4	2.1	-	-	-	-

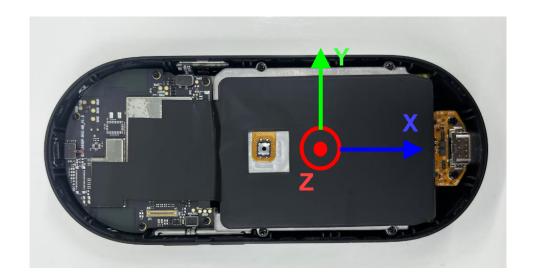
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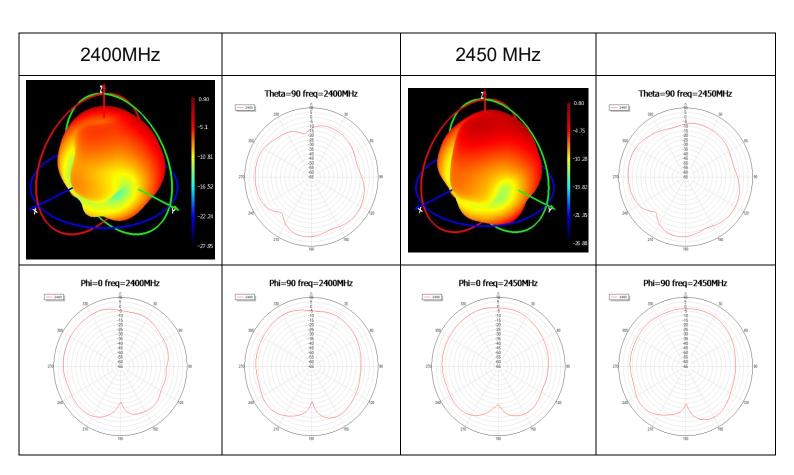


### 3.2.3. 2D Radiation Pattern

Test Condition: Assembled in test device

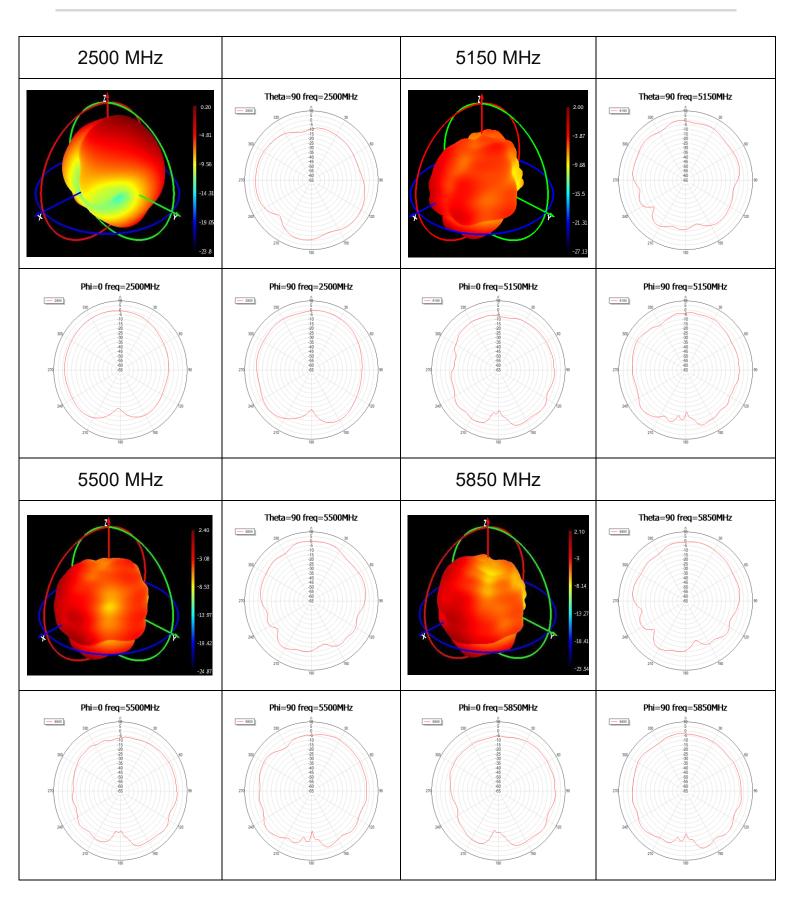
Test Chamber: HF-S-1





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# 4 Packaging

Step	Packaging Picture / 2D Picture	Description
1	X100PCS	100 antenna products in a small PE bag (100 Antennas / PE Bag)
2	X10PCS X100PCS	1000 antenna products in a big PE bag (1000 Antennas / PE Bag)
3	X30 bag	30 PE Bags / Carton Box (30000 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 = 370 × 370 × 295 mm

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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 packaging method shall be subject to the actu	-

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## **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:

http://www.quectel.com/support/sales.htm.

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## **Revision History**

Version	Date	Author	Note
-	2024-07-01	Edison Liu/ Blake Xiang/ David Liu/ Aria Chu	Creation of the document
1.0	2024-07-01	Edison Liu/ Blake Xiang/ David Liu/ Aria Chu	First official release
1.1	2025-09-02	Blake Xiang/ Edison Liu/ Aria Chu	Numerous changes were made to this document. It should be read in its entirety.

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