



Antenna Datasheet

Product OC: Y0RSN0CA0EA

Version: 1.0

Date: 2025-05-22

Product Name: FPC Wi-Fi Antenna

Key Features:

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

Dimensions: 37 mm × 18.6 mm

Efficiency: Up to 61.6 %

RoHS and REACH Compliant

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1 Specification

Test Condition: Assembled in test device

1.1. Electrical

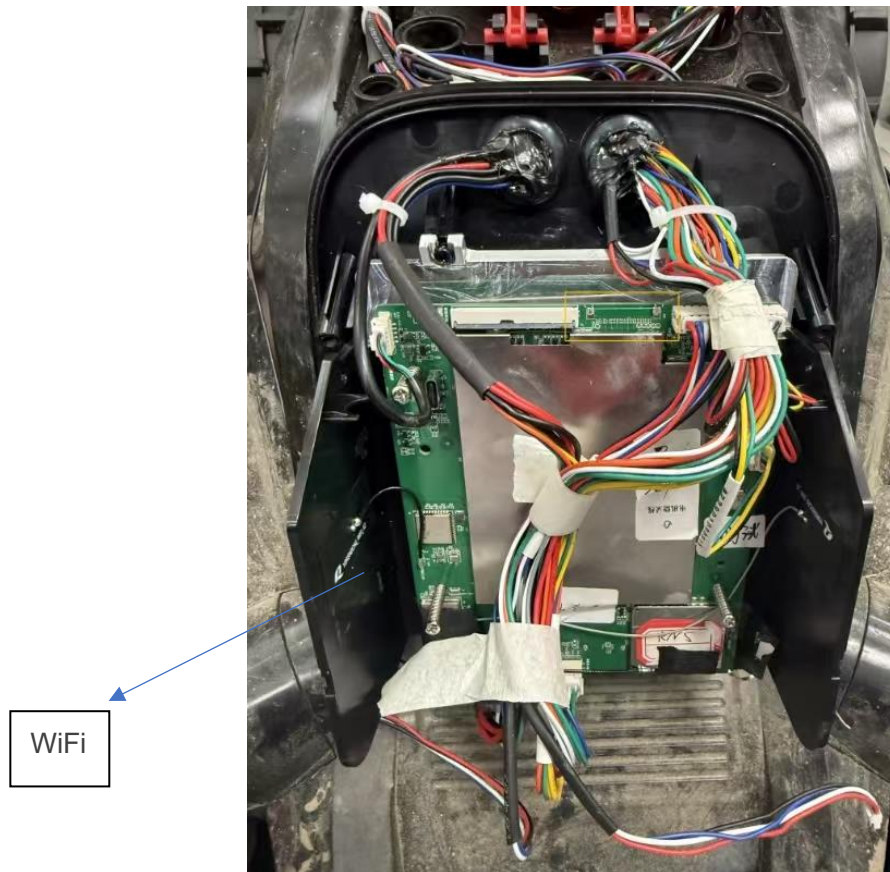
Electrical	
Frequency Range	2400–2500 MHz, 5150–5850 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional
VSWR	≤ 2.0
Peak Gain	6.02 dBi

1.2. Mechanical & Environmental

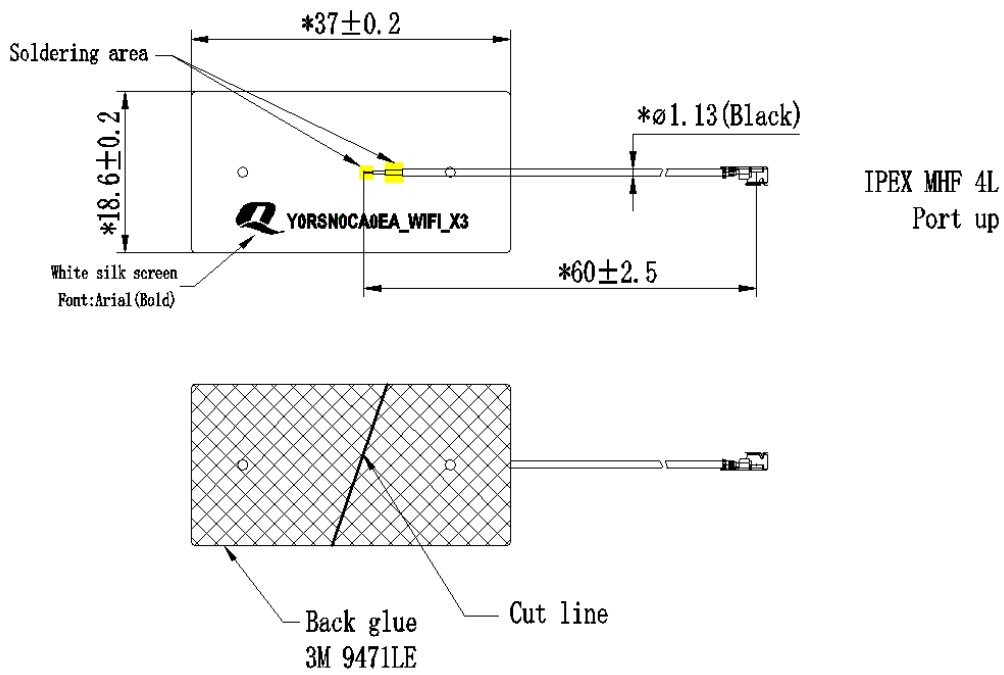
Mechanical	
Antenna Dimensions	37 mm $\times$ 18.6 mm
Material & Color	FPC & Black
Cable Type & Color & Length	Φ 1.13 & Black & 60 mm
Connector Type	IPEX MHF 4L
Mounting Type	Adhesive
Weight	Typ. 0.4 g
Environmental	
Operation Temperature	-40 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$

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

1.3. Antenna Assembly



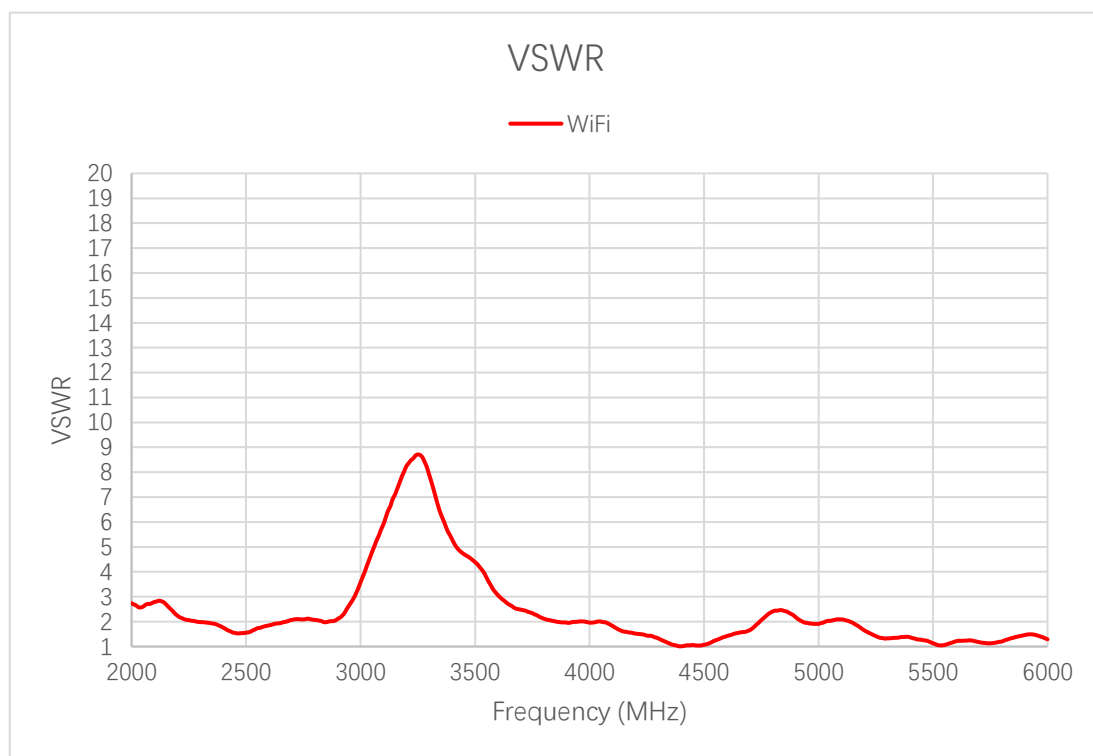
2 Drawing



3 Detailed Performance

3.1. S-Parameter Test

3.1.1. VSWR

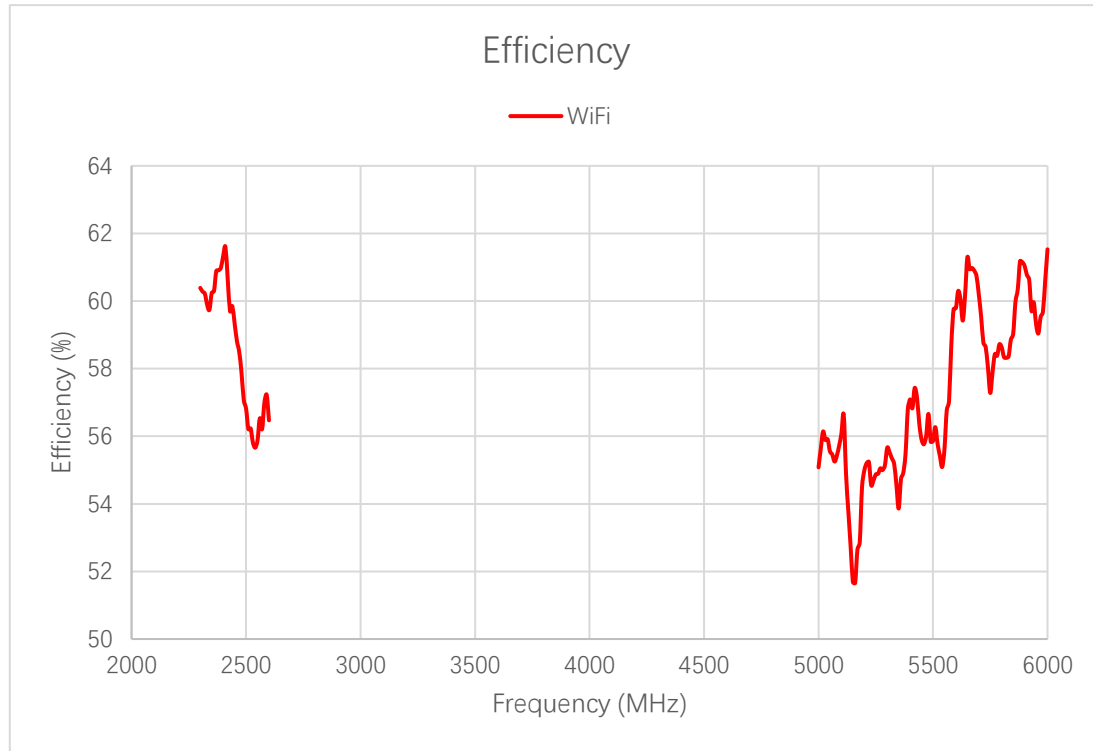


VSWR

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
VSWR	1.8	1.6	1.6	2.0	1.1	1.4	-	-	-	-

3.2. Radiation Performance Test

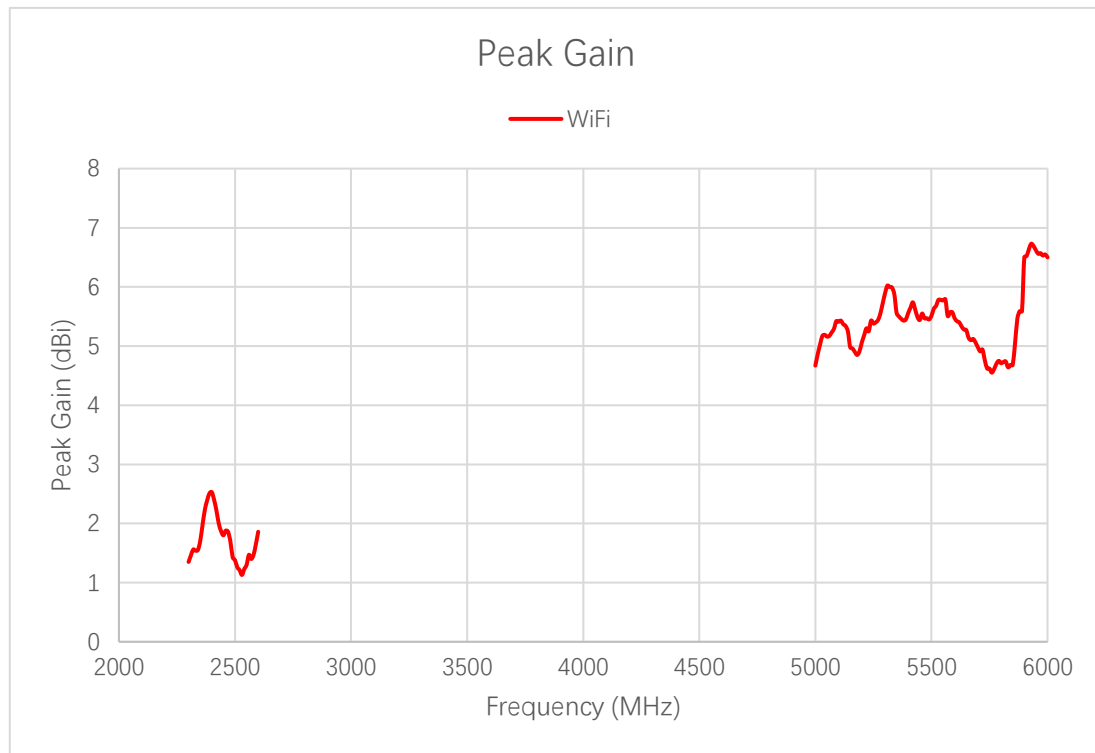
3.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Efficiency (%)	61.3	59.3	56.8	51.7	55.9	59.0	-	-	-	-

3.2.2. Peak Gain



Peak Gain (dBi)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Peak Gain (dBi)	2.5	1.8	1.4	5.0	5.5	4.7	-	-	-	-

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
-	2025-05-22	Charming YANG/ Bill MO/ Aria CHU	Creation of the document
1.0	2025-05-22	Charming YANG/ Bill MO/ Aria CHU	First official release



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