

Antenna Specification

Product Item: Y0BBW0CB2BA

version: 1.0

Date: 2026-04-28

Product Name: WIFI FPC Antenna

key features:

Frequency range: 2400~2500 MHz、5150~5850 MHz

Size: 27.65 mm × 8.30 mm × 0.27 mm

Efficiency: Highest 51 %

Compliance RoHS standard

1 Specifications

Test status: complete machine test

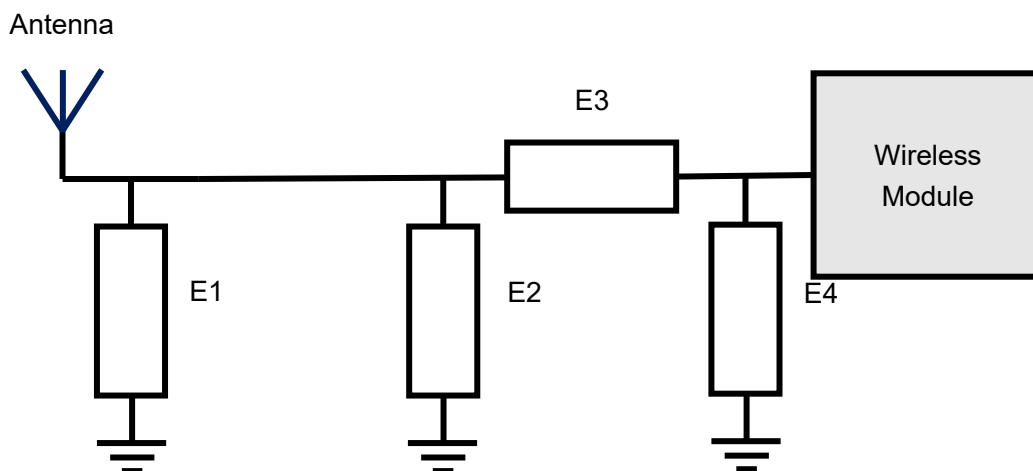
1.1. Electrical Performance

Electrical Specifications	
Frequency range	2400~2500 MHz、5150~5850 MHz
Impedance	50 Ω
Polarization mode	linear polarization
Radiation field type	Omni-directional
Voltage standing wave ratio	≤ 1.7
Peak Gain	3.3 dBi

1.2. Mechanical and environmental characteristics

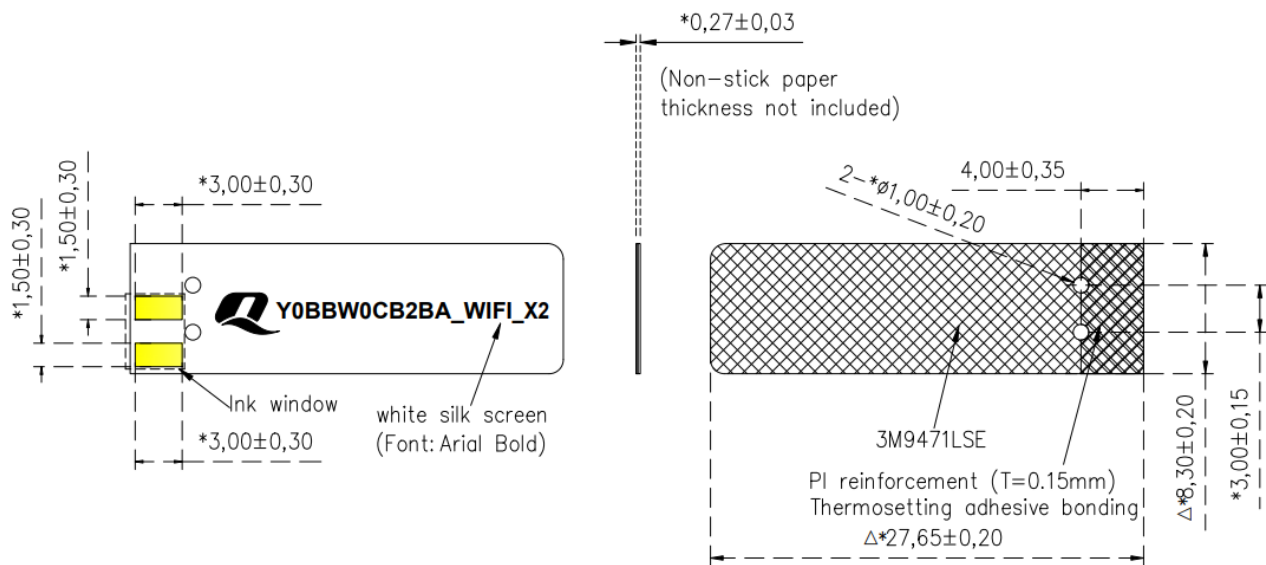
Mechanical	
Antenna size	27.65 mm × 8.30 mm × 0.27 mm
Materials & Color	FPC & Black
Weight	About 0.23 g
Installation Type	Adhesive
Environment	
Storage temperature	-40 °C ~ +85 °C
Working temperature	-40 °C ~ +85 °C
Compliance with environmental standards	RoHS

1.3. Matching circuit



	E1	E2	E3	E4
Matching device value	NC	NC	0Ω	NC
Accuracy	N/A	N/A	N/A	N/A

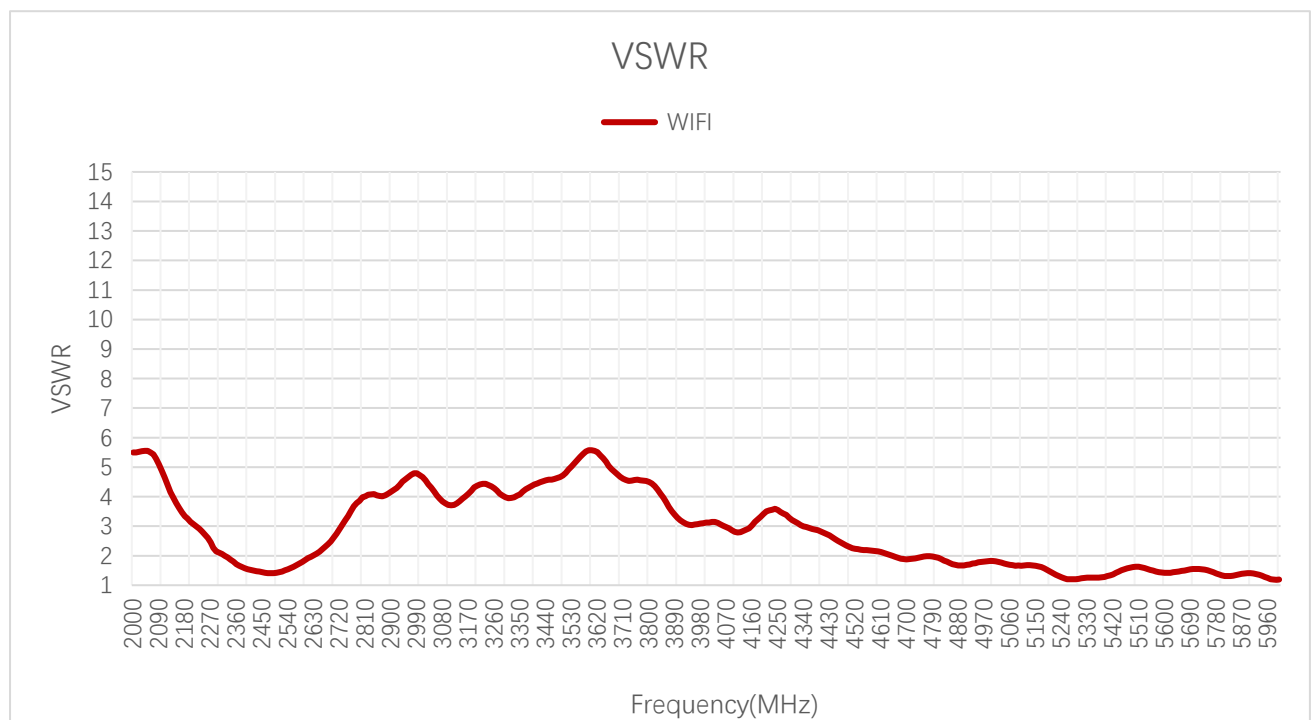
2 Drawings



3 Detailed performance

3.1. S parameter test

3.1.1. Voltage standing wave ratio

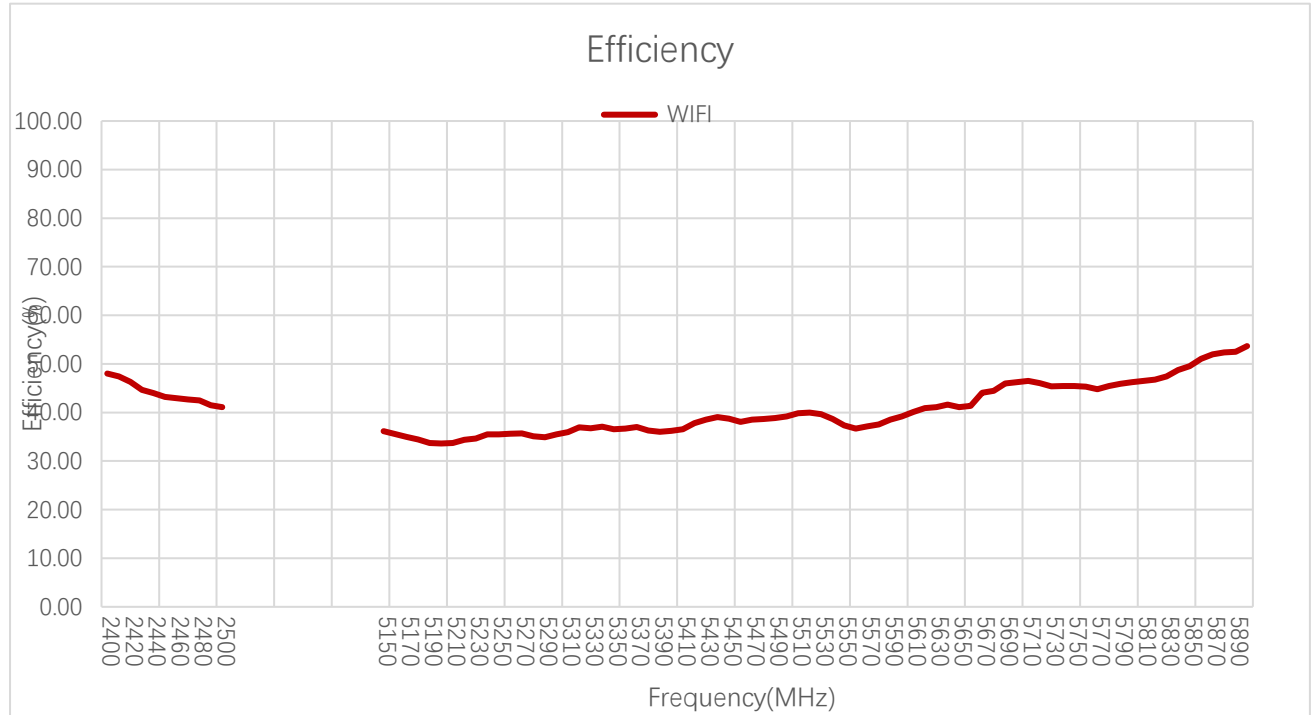


Voltage standing wave ratio

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6525	7125
voltage standing wave ratio	1.5	1.4	1.4	1.7	1.6	1.3	-	-	-

3.2. Radiation performance test

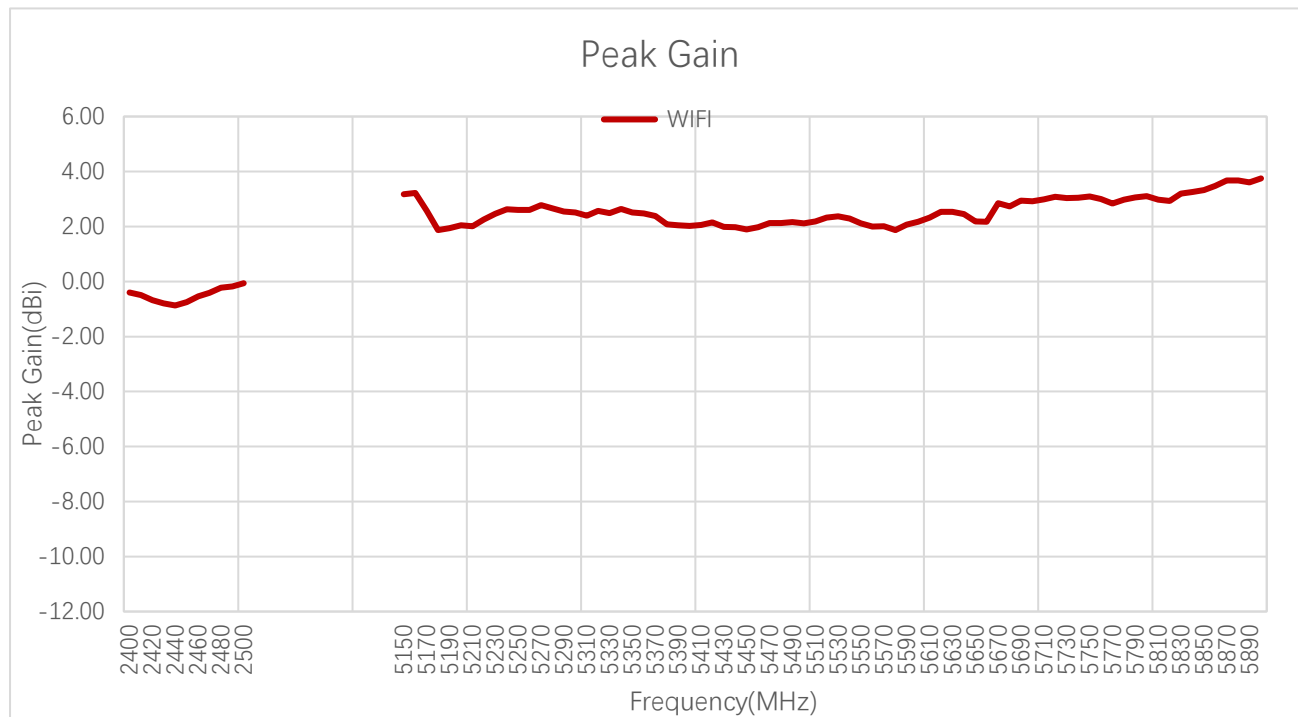
3.2.1. Efficiency



效率 (%)

Frequency(MHz)	2400	2450	2500	5150	5500	5850	5925	6525	7125
Efficiency (%)	48.0	43.2	41.1	36.2	39.2	49.5	-	-	-

3.2.2. Peak Gain



峰值增益 (dBi)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6525	7125
Peak Gain (dBi)	-0.4	-0.8	-0.1	3.2	2.1	3.3	-	-	-

Contact Us

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Shanghai Shiyuan Communication Technology Co., Ltd.
Waipaojing Road, Sijing Town, Songjiang District, Shanghai 8 zip Code: 201601
Tel: +86 21 5108 6236 Mailbox: info@quectel.com

Or contact our local office, please log in: <https://www.quectel.com.cn/contact>。

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