



Antenna Datasheet

Product OC: Y0SGA0CA0DA

Version: 1.0

Date: 2026-06-12

Product Name: Metal Sheet WIFI Antenna

Key Features:

Frequency Band: 2400–2500 MHz

Dimensions: 8.7 mm × 5.54 mm × 1.8 mm

Efficiency: Up to 21.2%

RoHS and REACH Compliant

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1 Specification

Test Condition: Assembled in test device

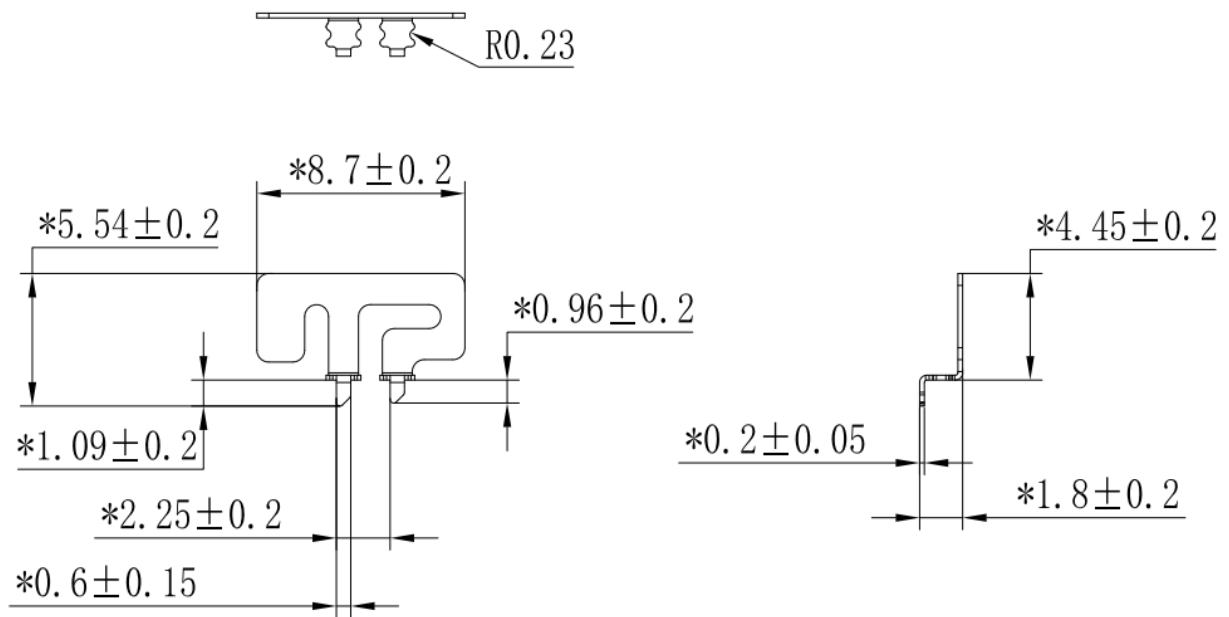
1.1. Electrical

Electrical	
Frequency Range	2400–2500 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional
VSWR	≤ 3.5
Peak Gain	-1.5 dBi

1.2. Mechanical & Environmental

Mechanical	
Antenna Dimensions	8.7 mm × 5.54 mm × 1.8 mm
Material & Color	SUS304 & Nature
Weight	Typ. 0.04 g
Mounting Type	Soldering
Environmental	
Operation Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C
RoHS & REACH Compliant	Yes

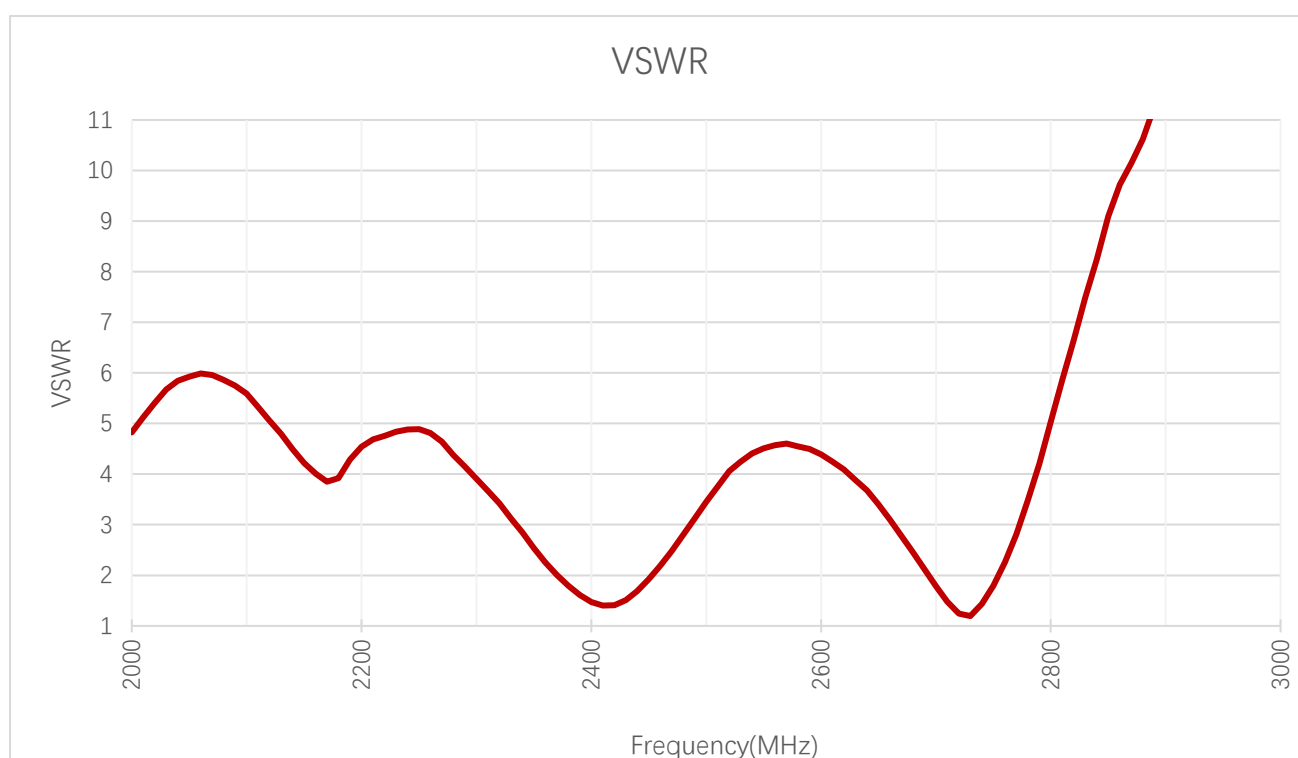
2 Drawing



3 Detailed Performance

3.1. S-Parameter Test

3.1.1. VSWR



VSWR

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
VSWR	1.5	1.9	3.5	-	-	-	-	-	-	-

3.2. Radiation Performance Test

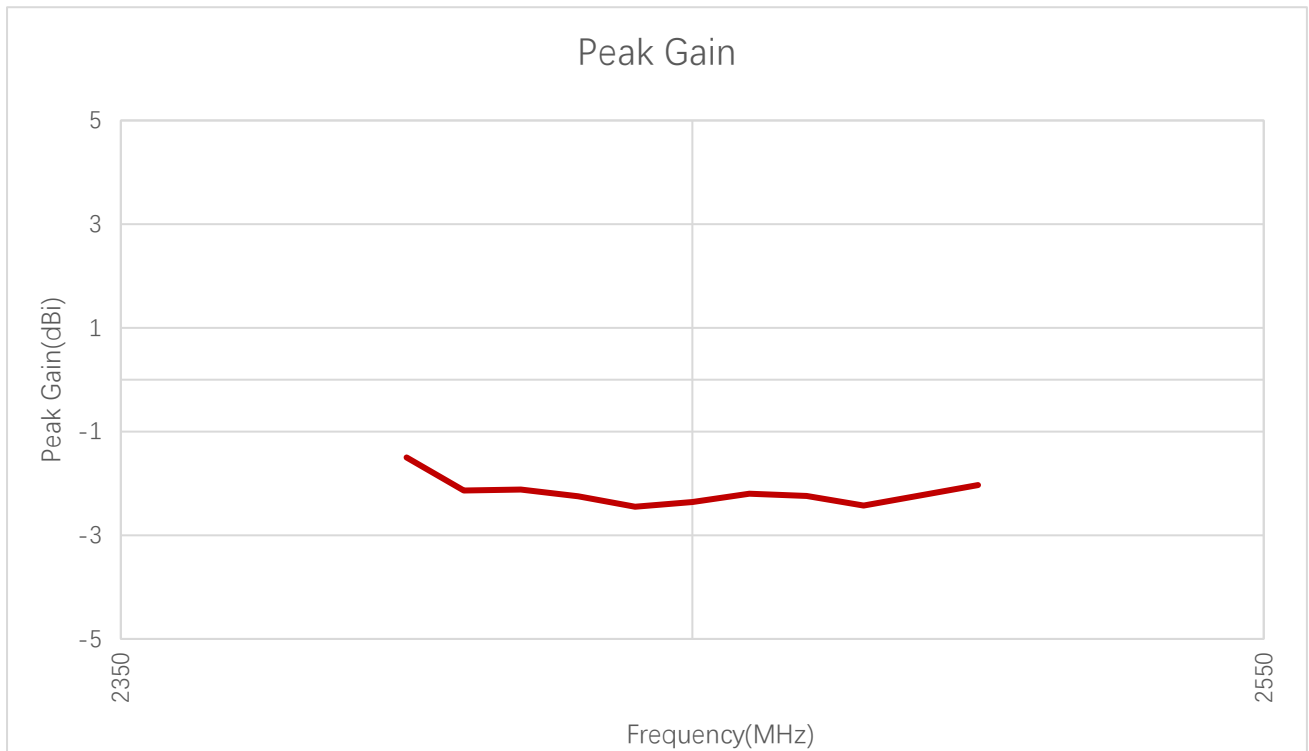
3.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Efficiency (%)	21.2	18.5	17.4	-	-	-	-	-	-	-

3.2.2. Peak Gain

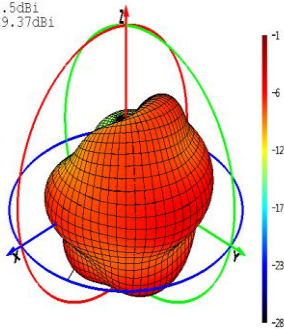


Peak Gain (dBi)

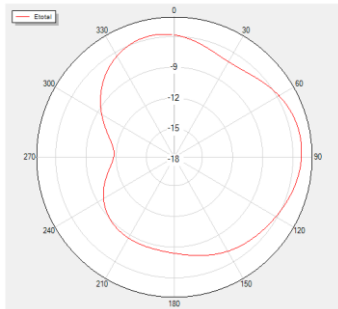
Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Peak Gain (dBi)	-1.5	-2.4	-2.0	-	-	-	-	-	-	-

2400 MHz

MAX:-1.5dBi
MIN:-29.37dBi

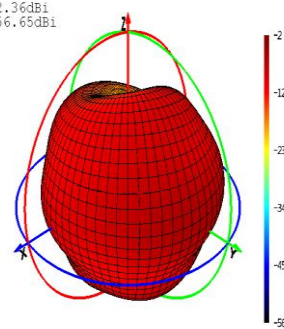


Theta=90 Freq=2400MHz

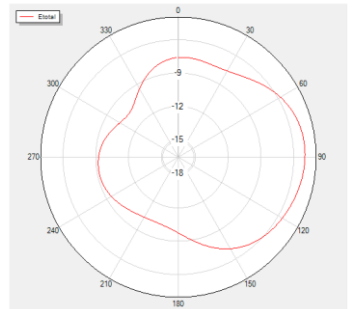


2450 MHz

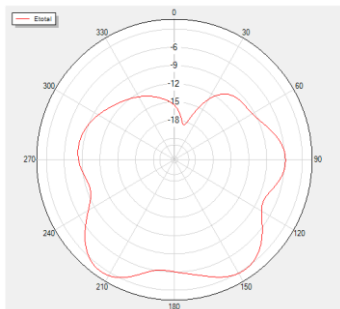
MAX:-2.36dBi
MIN:-56.65dBi



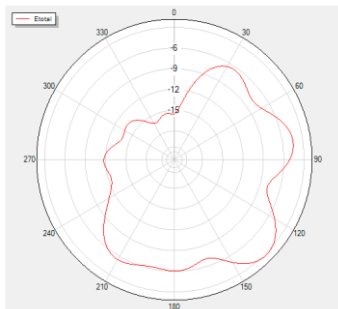
Theta=90 Freq=2450MHz



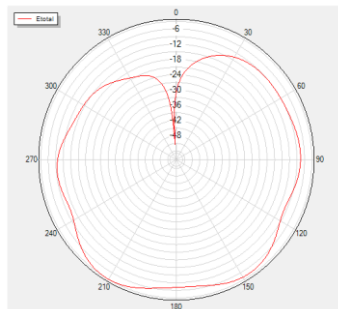
Phi=0 Freq=2400MHz



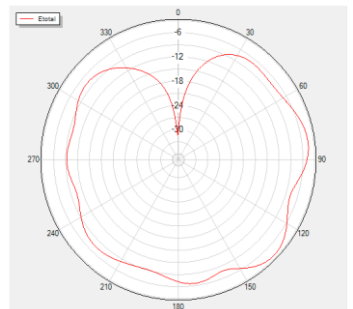
Phi=90 Freq=2400MHz



Phi=0 Freq=2450MHz

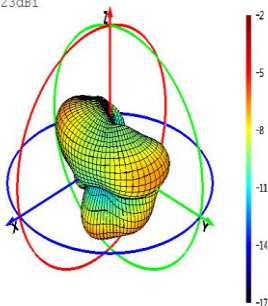


Phi=90 Freq=2450MHz

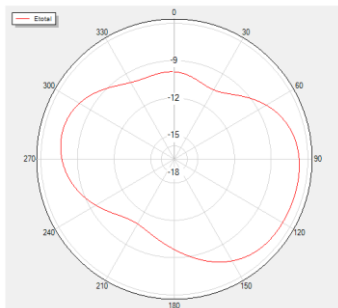


2500 MHz

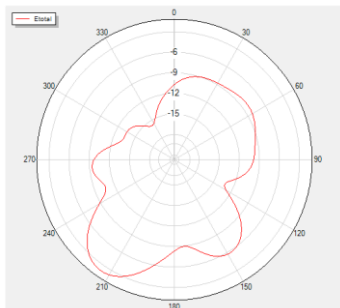
MAX:-2.03dBi
MIN:-17.23dBi



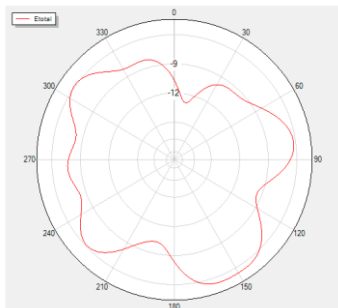
Theta=90 Freq=2500MHz



Phi=0 Freq=2500MHz



Phi=90 Freq=2500MHz



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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Email: info@quectel.com

Or our local offices. For more information, please visit:

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Revision History

Version	Date	Author	Note
-	2026-06-12	Owen Deng/ Lucky Feng/ Rainey Liao	Creation of the document
1.0	2026-06-12	Owen Deng/ Lucky Feng/ Rainey Liao	First official release



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