
Antenna specification sheet

Product Part Number: Y0BW0CA2AA Version: 1.0
Date: March 18, 2025

Product Name: WIFI Built in Antenna

Main features:

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

Dimensions: 31.74mm × 33.61mm × 0.13mm

Efficiency: up to 67%

Compliant with RoHS standards

Manufacturer: Streamax Technology Co., Ltd.

Address: 21-23/F, Building B1, Zhiyuan, No. 1001 Xueyuan Avenue, Nanshan
District, Shenzhen, Guangdong China 518055

1 Specification parameters

1.1. Electrical performance

Electrical specifications	
Frequency range	2400~2500 MHz、5150~5850 MHz
impedance	50 Ω
Polarization mode	linear polarization
radiation pattern	Omnidirectional
vswr	≤ 2.0
peak gain	5.5 dBi

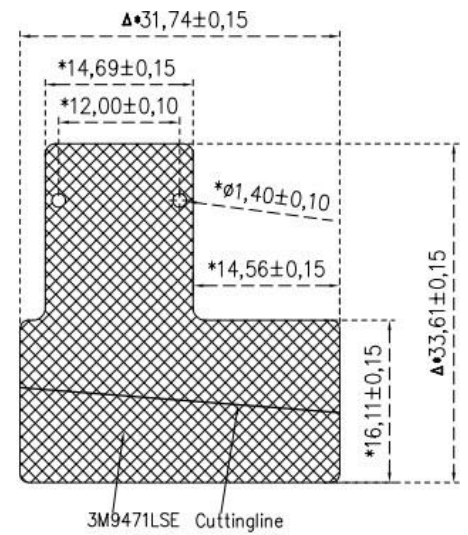
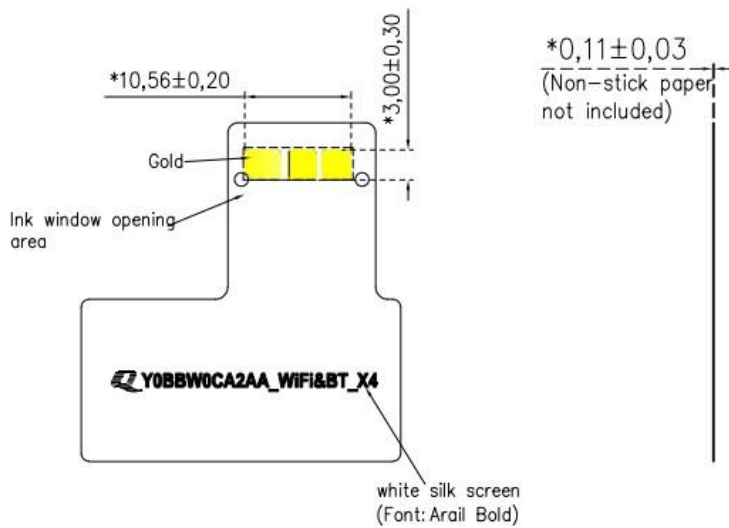
1.2. Mechanical and Environmental Characteristics

machinery	
Antenna size	31.74mm × 33.61 mm × 0.13 mm
Materials&Colors	FPC & Black
weight	0.19 g
Installation type	Adhesive backing
environment	
storage temperature	-40 °C ~ +85 °C
operation temperature	-40 °C ~ +85 °C
Compliant with environmental standards	RoHS

1.3. Antenna Installation Diagram



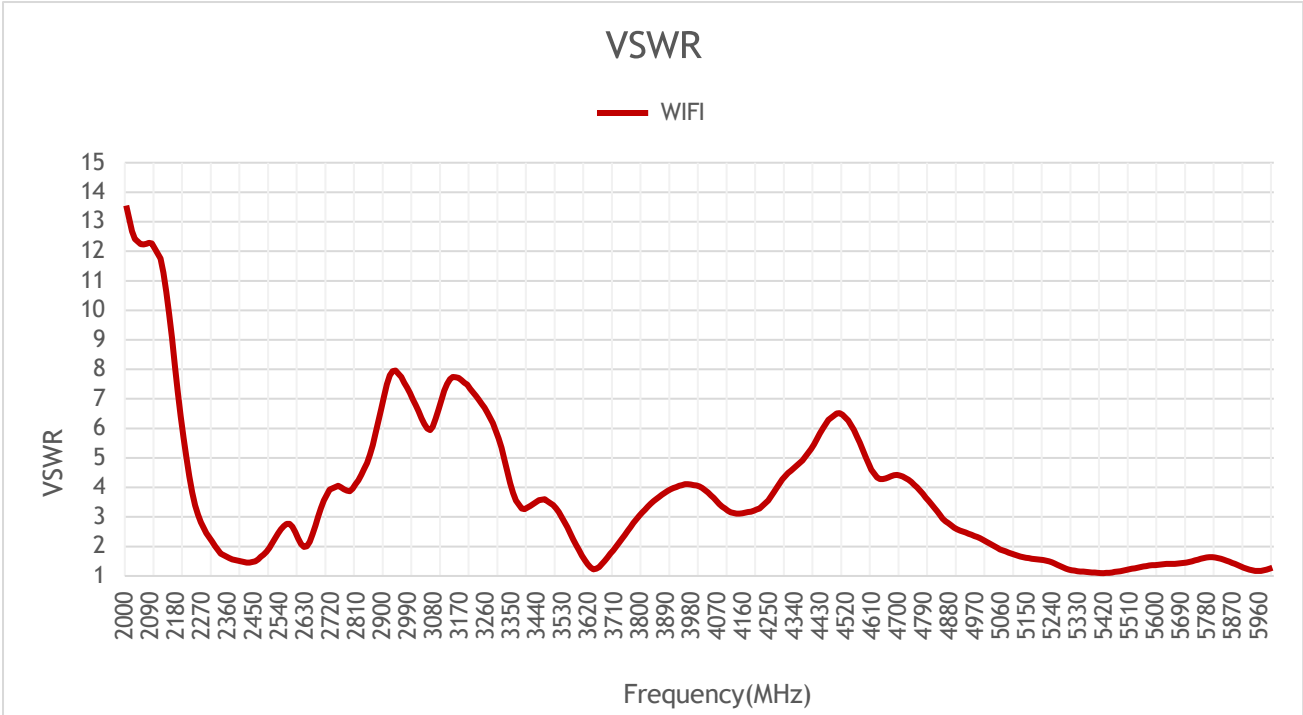
2 Drawing



3 Detailed performance parameters

3.1. S Parameter testing

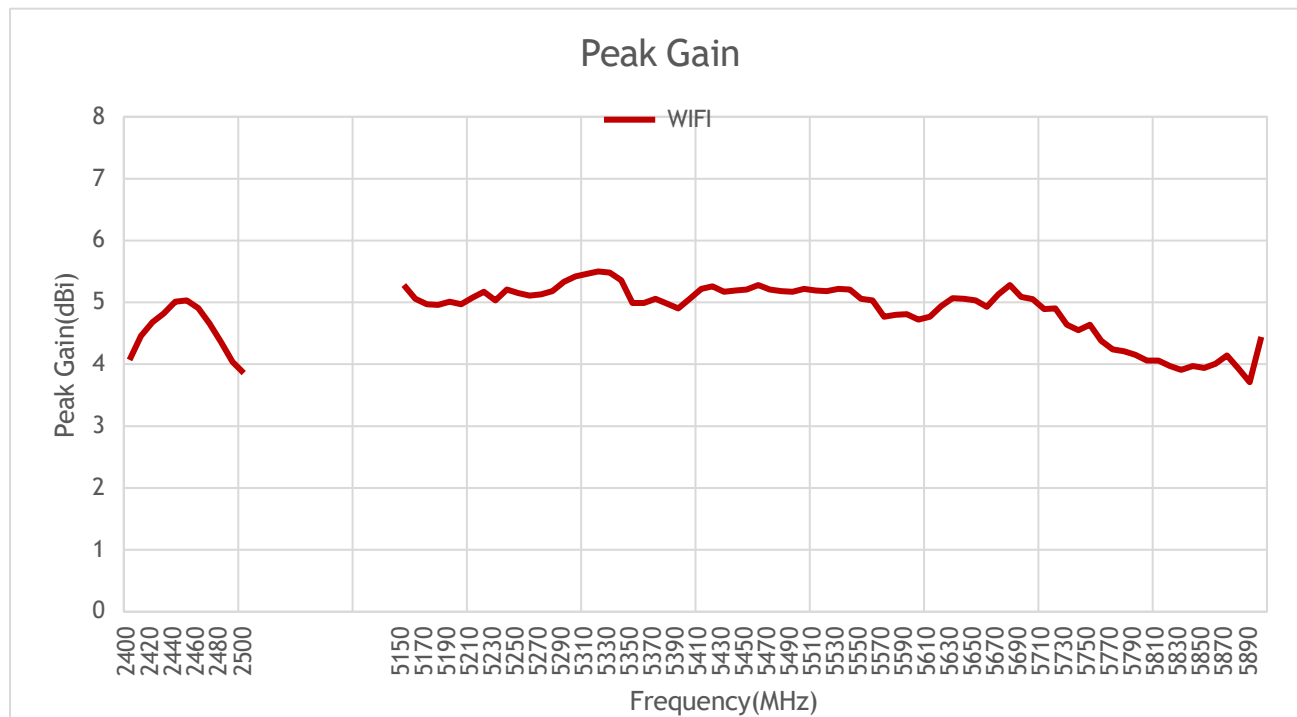
3.1.1. Voltage standing wave ratio



电压驻波比 - WIFI 0

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
VSWR	1.5	1.5	2.0	1.6	1.2	1.5	-	-	-	-

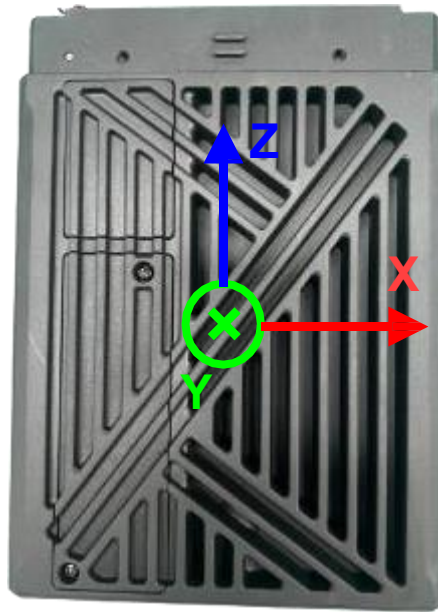
3.1.2. Peak gain



峰值增益 (dBi) – WIFI 0

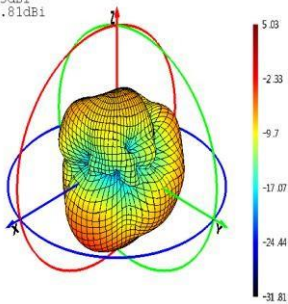
Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
peak gain(dBi)	4.1	5.0	3.9	5.3	5.2	3.9	-	-	-	-

3.1.3. Radiation field pattern diagram

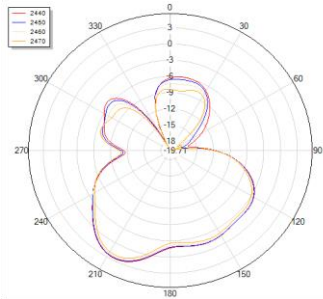


2450MHz

MAX:5.03dBi
MIN:-31.81dBi

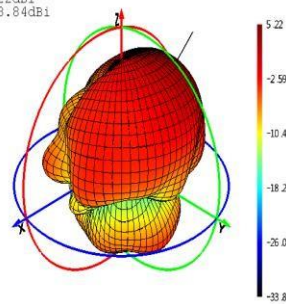


Phi=0

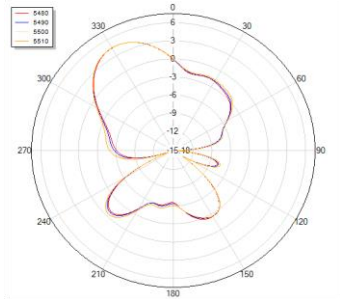


5500MHz

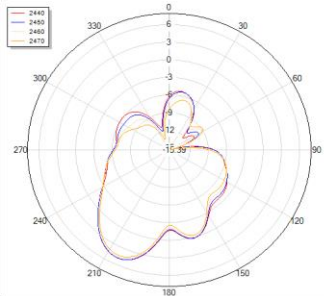
MAX:5.22dBi
MIN:-33.84dBi



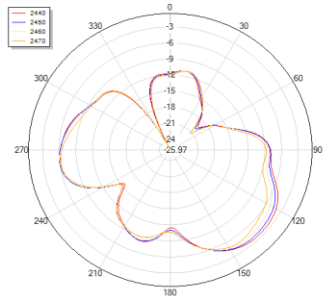
Phi=0



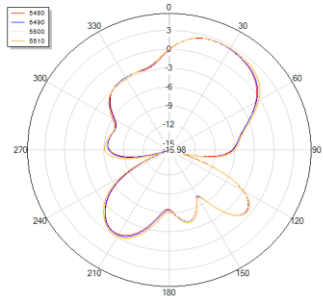
Phi=90



Theta=90



Phi=90



Theta=90

