

Product Number: JSP-19509304-22BN

Product Name: WIFI Antenna



Specification For Approval

日期 Date : 2023/01/011

编号 File No. : XBL23011103

版次 Version : 1.0

Customer: JX

Customer P/N:

Sinbolin P/N: JSP-19509304-22BN

Description : WIFI Antenna

Sinbolin Checked By:

Customer Approved By:



Sinbolin Technology Inc.

Room205,building6,No,162,East Zhen,an Road,Changan Town,Dongguan City

The phone: 13929204545

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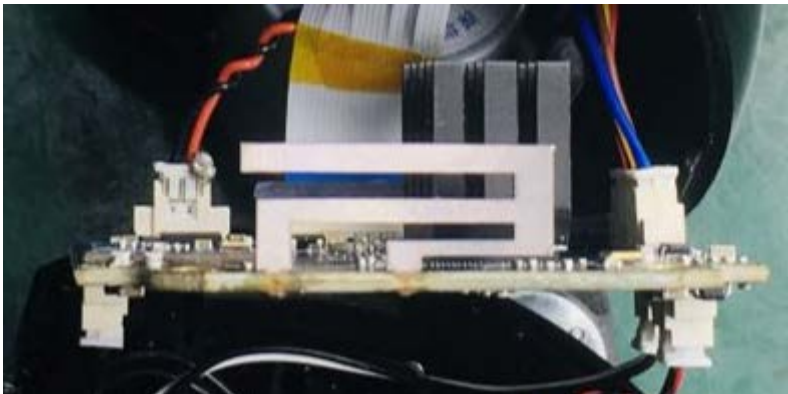
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1. Product Specification

Product Photo	
	
A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz
V.S.W.R	≤ 2.0 @ 2400 ~ 2500 MHz
Return Loss	$\leq -10\text{dB}$ @ 2400 ~ 2500 MHz
Antenna Gain	2.00dBi
Radiation Efficiency	50 ~ 70 %
Impedance	$50 \pm 15 \text{ Ohm}$
Polarization	Linear
Antenna Type	PIFA
B. Material & Mechanical Characteristics	
Material of Radiator)	Stainless steel
Cable Type	/
Connector Type	/
Pull Test	/
C. Environmental	
Operation Temperature	- 40 °C ~ + 75 °C
Storage Temperature	- 40 °C ~ + 85 °C

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2. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements	Result
C1	V.S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification	PASS
M1	Vibration	GB / T2423.48-2008 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.≤5%	PASS
M2	Random Drop	GB / T2423.8-1995 Single: Height: 1.0 Meter; 3 directions; 1 time for each direction	1. No parts separated、fracture 2. Frequency Tol.≤5%	PASS
M4	Pull Test	Holding with individual specification; force applied to axis of terminal .	1. Directive DUT specification 2. Frequency Tol.≤5%	PASS
M6	Dimension	Inspection of dimension, color, material, package, surface process.	Directive DUT specification	PASS
E2	Salt Spray	GB / T 2423.17-2008 Temp: 35°C; RH: ≥ 95%; NaCl solution: ≥ 5%;Time: 24H	1. No Visual Damage 2. Frequency Tol.≤5%	PASS
E3	Temperature and Humidity Chamber	GB / T 2423.3-2006 Temp: 80°C / 12 H; -40°C / 12H RH: ≥ 90%; Time: 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5%	PASS
E4	Thermal Shock	GB / T 2423.22 - 2008 - 40°C (30 minutes) to + 80°C (30 minutes); Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5%	PASS
E5	Aging test	GB /T 2423.2 - 2008 Temp: 80°C; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5%	PASS

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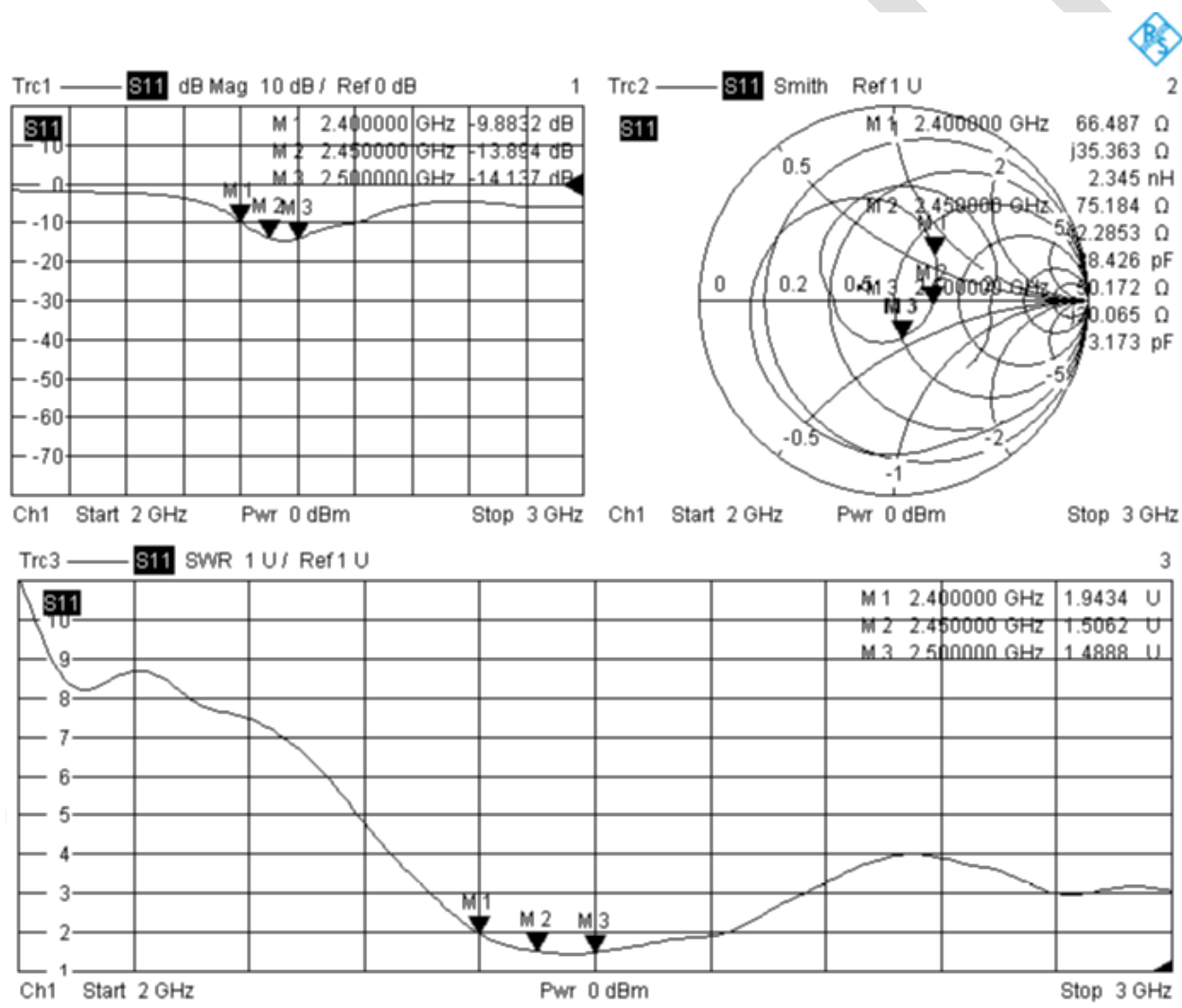
4. SParameter Test Data



ROHDE&SCHWARZ ZVL

The test frequency range: 9KHz-6GHz

Testing capability: V.S.W.R、Return Loss、Smith Etc.



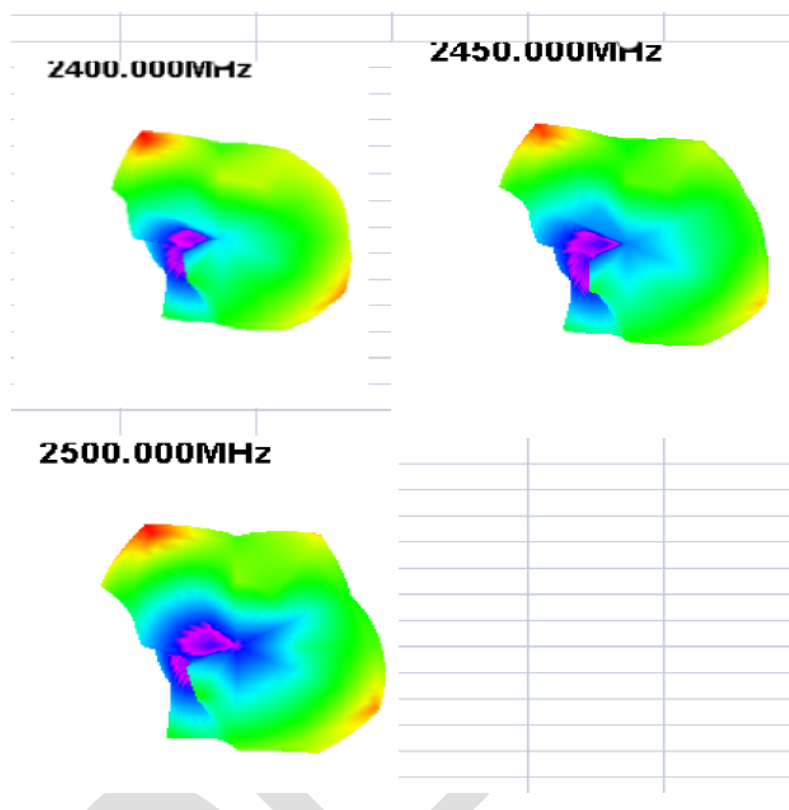
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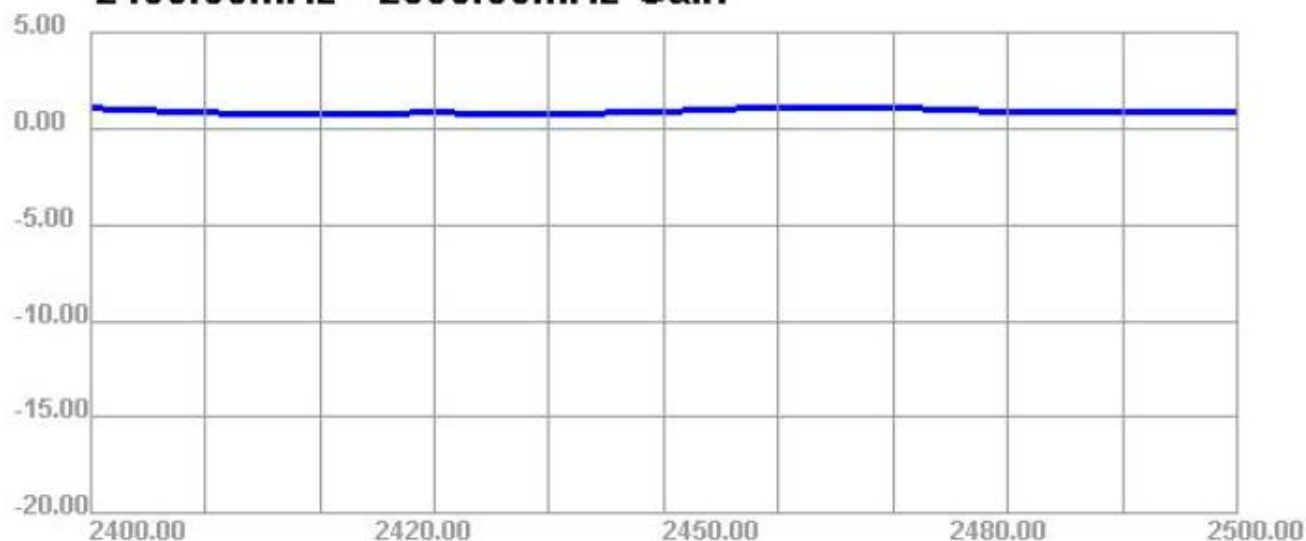
5. Efficiency and Gain Test Data

Passive Test For WIFI2400

Freq (MHz)	Effi (%)	Gain (dBi)
2400	54.41	1.05
2410	51.96	0.81
2420	51.92	0.75
2430	52.68	0.82
2440	53.13	0.74
2450	54.49	1.98
2460	56.27	1.11
2470	56.73	1.08
2480	55.69	0.86
2490	56.25	0.86
2500	55.68	0.91



2400.00MHz - 2500.00MHz Gain



2400.00MHz - 2500.00MHz Efficiency



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6. Active test data

Mode	Band	Test Case	Channel	Data Rate	Test Results (dBm Worst)
				(Mbps)	机台型号: SC4336
WIFI 2.4G	802.11.b	TRP	1	11M	15.72
			7		16.15
			13		16.28
		TIS	1	11M	-76.21
			7		-77.3
			13		-76.86
	802.11.g	TRP	1	54M	14.57
			7		15.12
			13		14.88
		TIS	1	54M	-65.62
			7		-64.37
			13		-65.45
	802.11.n	TRP	1	ISM (65)	12.75
			7		13.43
			13		13.12
		TIS	1	ISM (65)	-62.5
			7		-62.47
			13		-63.05

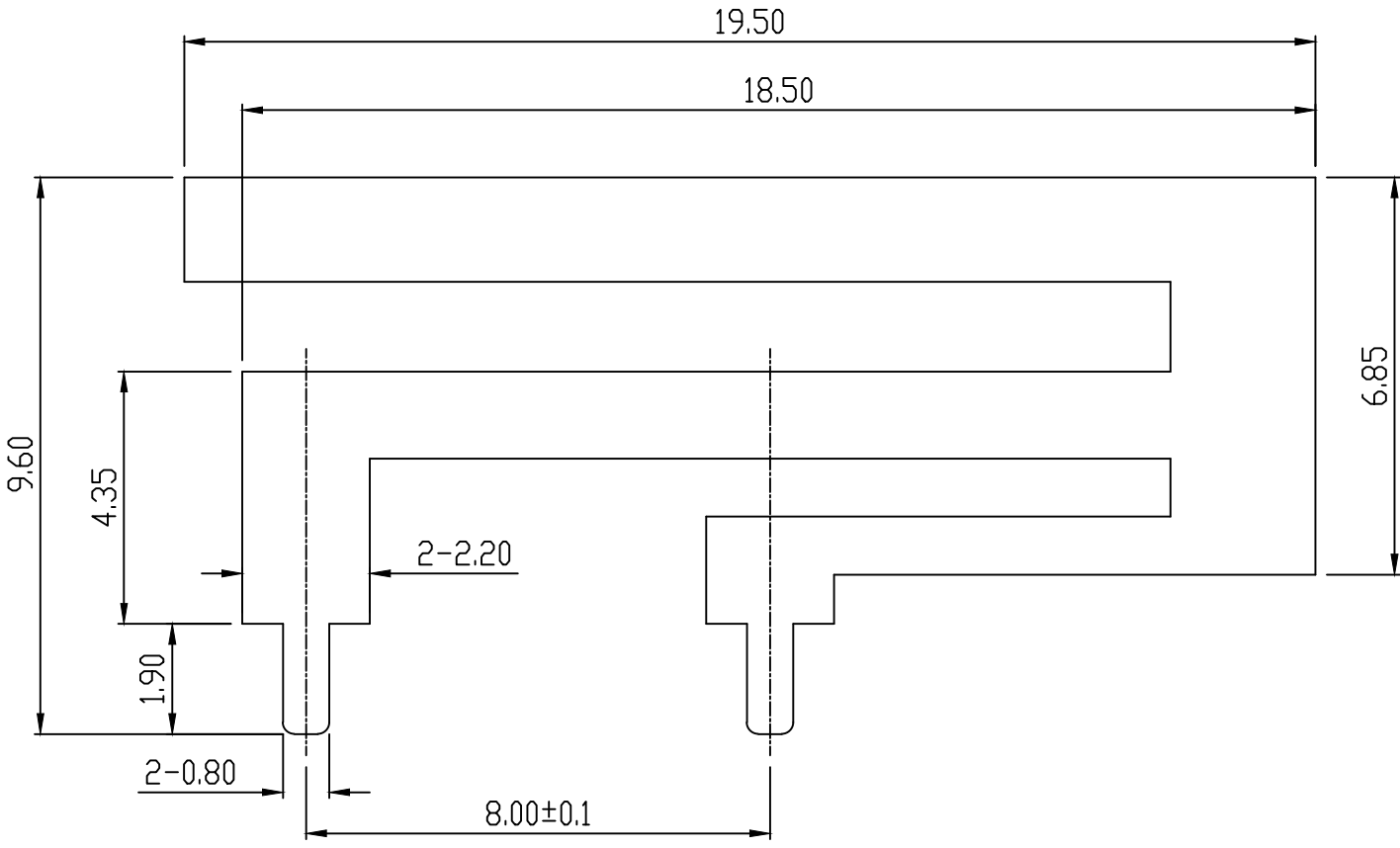
HF☐

RoHS☒

REACH☐

CONFIDENTIAL

SIGN	DATE	DESCRIPTION	APPROVER
			YJH



Technical requirements:
1.The material is stainless steel and the thickness is 0.4mm.
2.The color is nickel-plated

信博联
SINBOLIN

Dongguan Sinbolin Electronic Technology Co., LTD

TITLE: Sheetmetal			CUSTOMER P/N: /	
PART NO.: JSP-19509304-22BN				Standard Tolerance
APP BY	CHK BY	RF BY	DES BY	X.X ±0.2
City	Yixin		XRS	X.XX ±0.1
2023/01/11	2023/01/11		2023/01/11	X° ±1
				UNITS: mm
				SCALE: 1/1
				REVISION: B
				0.02
				0.03
				0.05
				0.05
				0.05

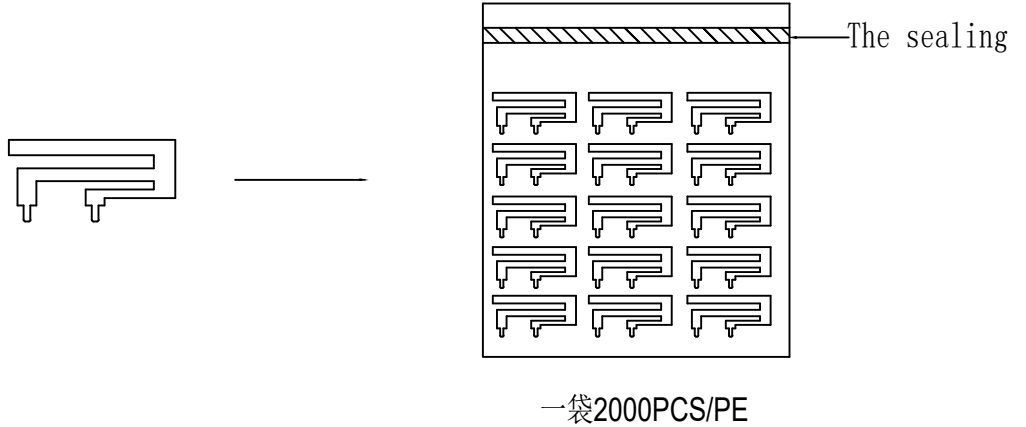
PACKING CRITERION

Date: 2023/01/11

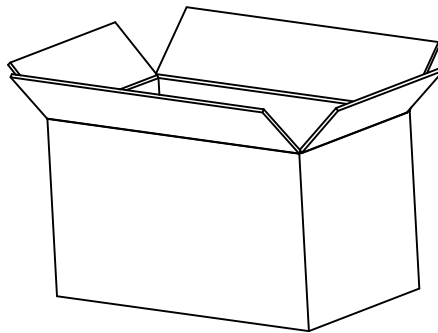
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Part Number : JSP-19509304-22BN	Revision : A
Name: Sheet metal WIFI Antenna	Customer :

一. WITH THE ANT INTO THE PE BAG



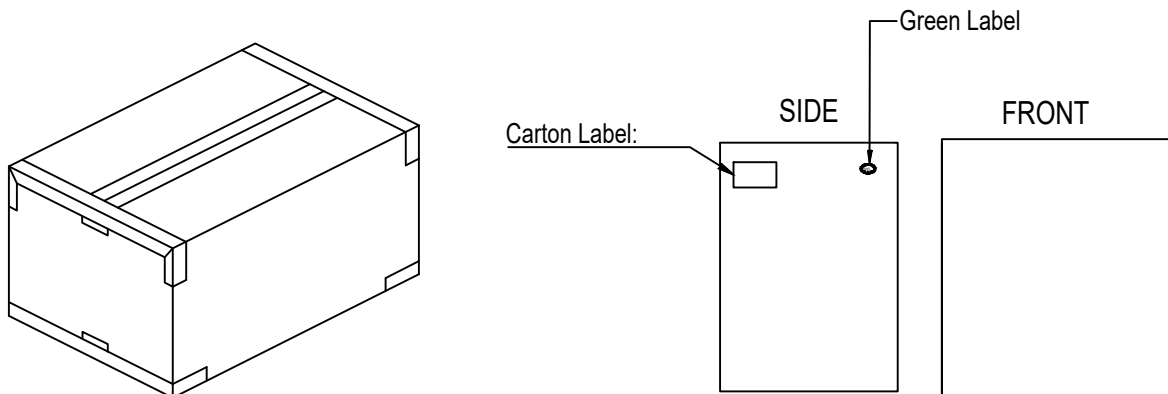
二. PACKING



20000PCS/CARTON

Will be subject to the actual order quantity

三. SEALING



APPROVED BY : City

CHECKED BY : Yixin

DESIGNED BY : XRS