



SPECIFICATION FOR APPROVAL

Customer:

Brand: Chuangyin

Product Description: 2JZ-2.4/5.8G-H

Customer P/N: XC11-WOO16-AO

Specification

/part no: 2.4G&5.8G external dual-band antenna, R-SMA
gold straight plug antenna

Date: 2026.06.18

Remark: Please return one specification or one copy of it with your chop and signature of approval and retain the others for your record. In the event of an order being placed for this part number before the chop and signed with specification (or copy) is returned and without special explanation, it will be assumed that full approval have been given.

Customer Signature & Chop:

CHECKED/DATE	AUDITOR/DATE	APPROVED/DATE



SPECIFICATION

Customer P/N:

Specification

Specification: 2.4G&5.8G external dual-band antenna, 2m
R-SMA gold straight plug antenna

Product Description: 2JZ-2.4/5.8G-H

Supplier: Chuangyin

Producer: Chuangyin

Remark: Please return one specification or one copy of it with your chop and signature of approval and retain the others for your record. In the event of an order being placed for this part number before the chop and signed with specification (or copy) is returned and without special explanation, it will be assumed that full approval have been given.

CHECKED/DATE	AUDITOR/DATE	APPROVED/DATE
XIANGBO 2026.06.18	YIYONGFENG 2026.06.18	JIANGLUNHE 2026.06.18



Revision History					
Revision No.	Modified Section	Modified Page	Effective Date	Change Description	Change d By
V1.0					

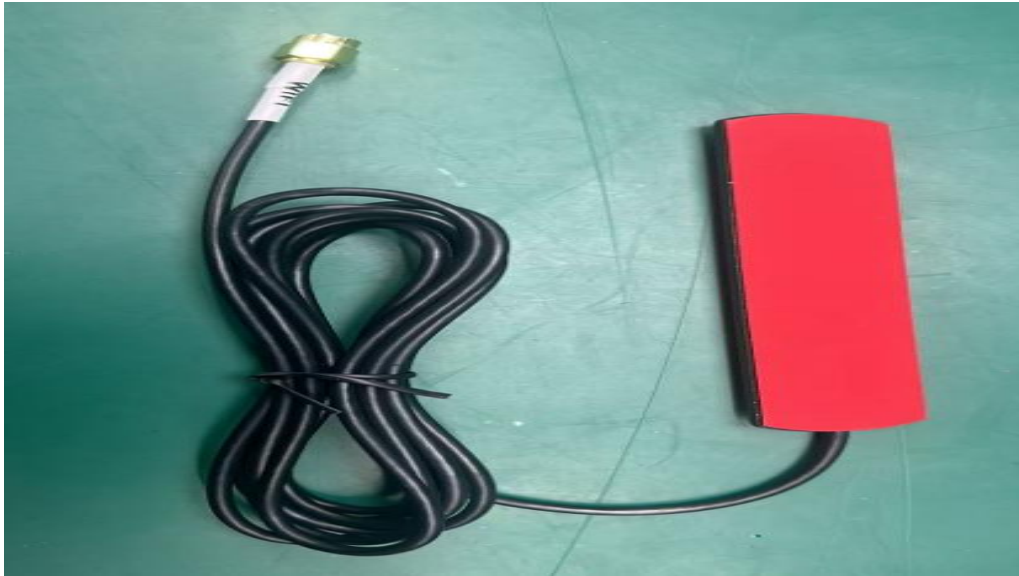


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I. Product Photos



II. Electrical Parameters:

Frequency	2.4~2.5GHz&5.15~5.85GHz
Impedance	50Ω
S.W.R.	≤2.0
Antenna Gain	3dBi±0.5@2.4GHz, 3dBi±0.5@5.8GHz
Polarization	Vertical Polarization
Return Loss	-10dB MAX



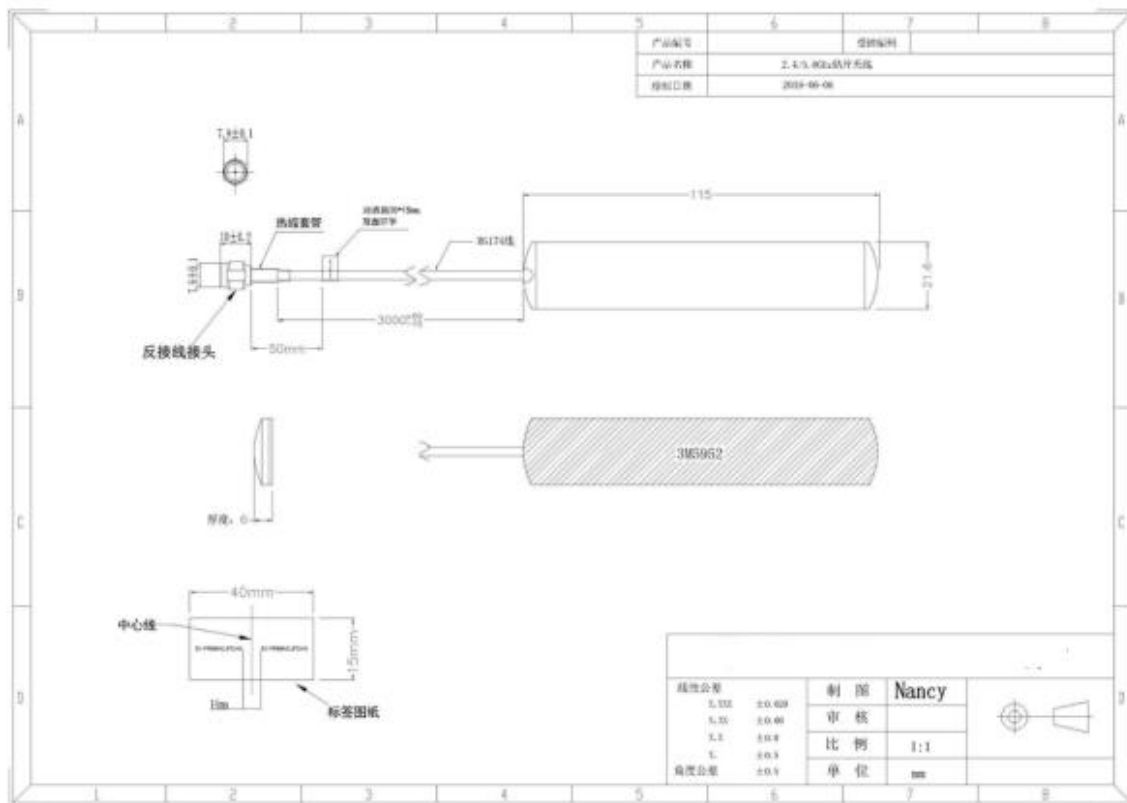
III. Mechanical Parameters:

Antenna Colour	Black housing, bar size 116.5*21.8mm, red adhesive backing
RF Cable Model	FG174 cable, 2m
Connect Type	R-SMA gold straight plug, Female pin

IV. Operating/Storage Temperature:

Operating Temperature	-40~80℃
Storage Temperature	-40~80℃

V. Structural Drawings:





VI. Environmental & Reliability Tests:

1. Environmental Test

High/Low Temperature & Humidity Test Report						
Test Item	High Temp, Low Temp & Humidity Test					
Test Sample Name	PCB Antenna		Test Date		2026-6-15	
Test / Inspection Equipment	Temp & Humidity Chamber, Network Analyzer		Test Quantity		5PCS	
Inspection Standard	1. No peeling, cracking, wrinkling or other defects on metal plating; no discoloration, cracking, deformation, degumming or other defects on non-metallic parts. 2. Electrical test meets design requirements; V.S.W.R. test passes.					
Test Name	Test Item	Requirement	Test Method	Actual Test Data	Result	
					Sample	Judgment
High Temperature Test	Temperature (°C)	+80±3	Per GB2423.1-89 Chapter 9	+80	1	Pass
	Sample temp stabilization time (h)	12		1.2	2	Pass
	Test duration (h)	1		2.3	3	Pass
	Recovery time (h)	1		1	4	Pass
					5	Pass
Low Temperature Test	Temperature (°C)	-40±3	Per GB2423.1-89 Chapter 8	-40	1	Pass
	Sample temp stabilization time (h)	1		1.2	2	Pass
	Test duration (h)	2		2.4	3	Pass
	Recovery time (h)	1		1.1	4	Pass
					5	Pass
Constant Humidity Test	Temperature (°C)	+40±2	Per GB2423.3-93 Chapter 5	+42	1	Pass
	Relative Humidity (%)	90-95		92	2	Pass
	Test duration (h)	21		22	3	Pass
	Recovery time (h)	1		1.1	4	Pass
					5	Pass



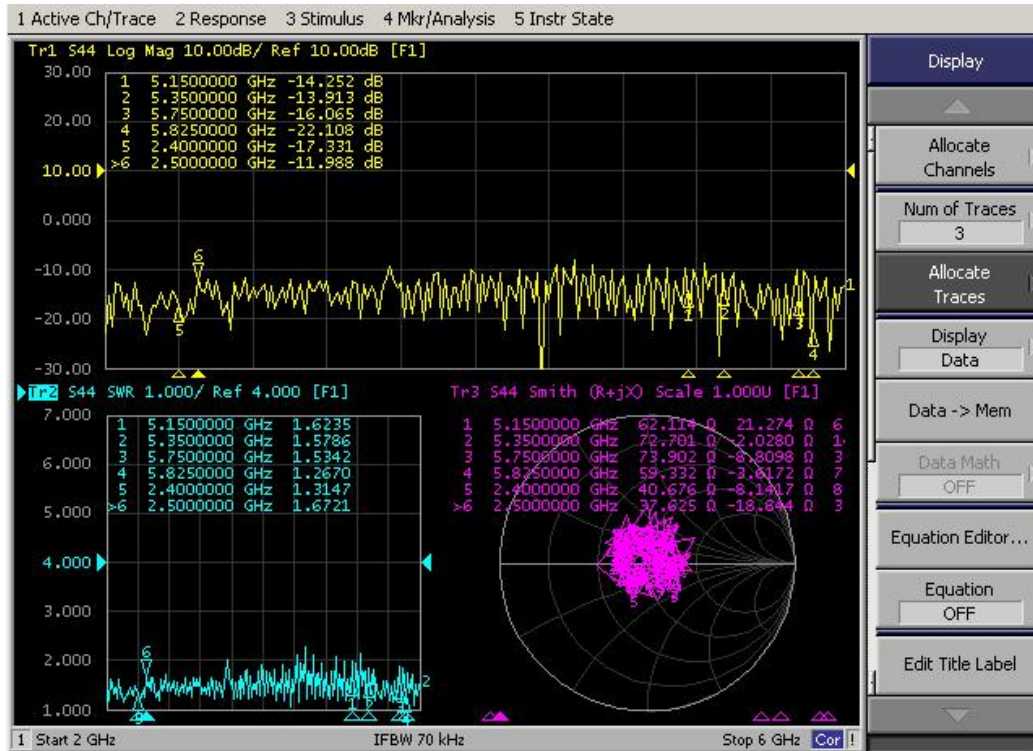
2, Salt Spray Test

Salt Spray Test Report				
Test Item	Salt Spray Test			
Test Sample Name	PCB Antenna	Test Date	2026-6-16	
Equipment Name	Salt Spray Corrosion Test Chamber	Test Quantity	5PCS	
Test Method	Place samples in prepared salt solution chamber; conduct continuous spray test in salt spray corrosion chamber			
Salt Solution Concentration	52g/L	Salt solution pH: 6.5-7.2	Test Duration: 24h	
Actual Test Data	55g/L	Salt solution pH: 6.8	Test Duration: 26h	
Test Standard	Test per GB/T10125 "Corrosion Tests in Artificial Atmospheres - Salt Spray Tests"; results rated per GB/T6461-2002 "Metallic and Other Inorganic Coatings on Metallic Substrates - Rating of Test Specimens and Articles After Corrosion Tests".			
Test Results				
No.	Corrosion Resistance Rating	Actual Test Data	Assessment Result	Remark
1	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	Pass	
2	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	Pass	
3	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	Pass	
4	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	Pass	
5	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	Pass	



VII. Test Parameters

1. V.S.W.R & Return Loss

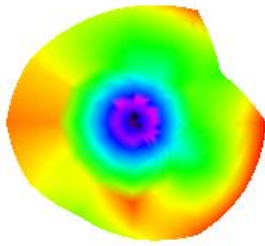


2. Gain & Efficiency

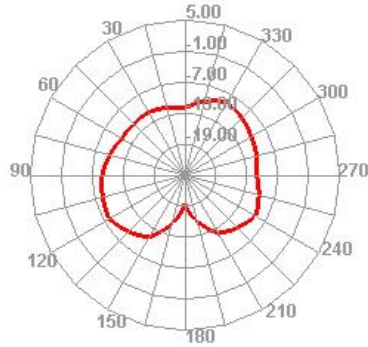
Passive Test For WiFi2.4			Passive Test For WiFi5.8		
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	42.16	2.78	5150	44.43	2.71
2410	43.38	2.76	5200	44.21	2.93
2420	44.06	2.93	5250	43.48	2.44
2430	43.76	2.15	5300	43.02	2.36
2440	43.99	2.2	5350	42.26	2.95
2450	43.09	2.07	5400	42.37	2.88
2460	41.69	2.96	5450	44.06	2.5
2470	39.81	2.99	5500	42.58	2.08
2480	41.31	2.74	5550	43.36	2.82
2490	43.25	2.64	5600	41.8	2.01
2500	44.71	2.65	5650	41.85	2.06
			5700	40.39	2.94
			5750	40.12	2.35
			5800	41.16	2.53
			5850	40.62	2.07



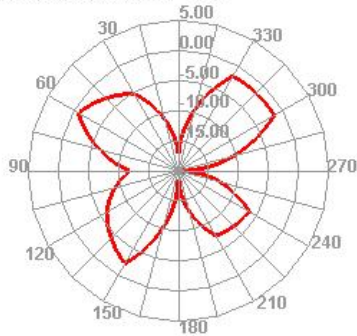
2400.000MHz



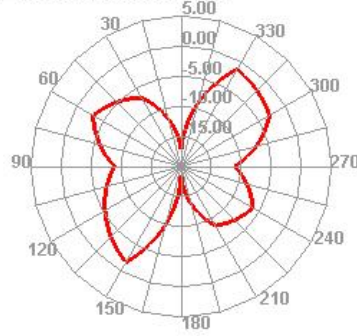
2400.000MHz H



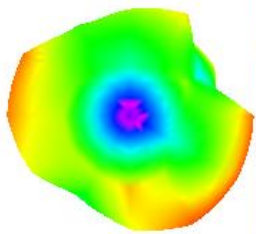
2400.000MHz E1



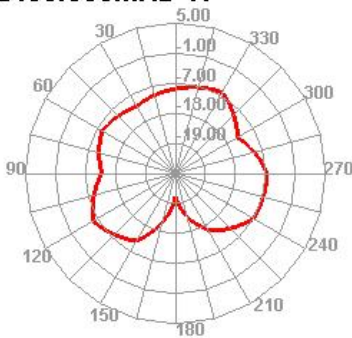
2400.000MHz E2



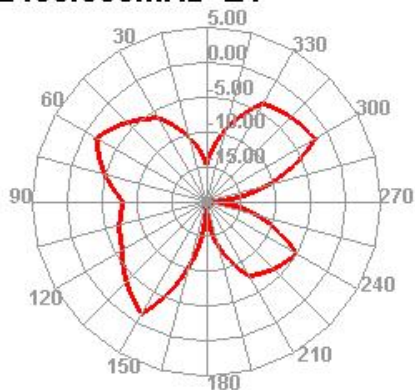
2450.000MHz



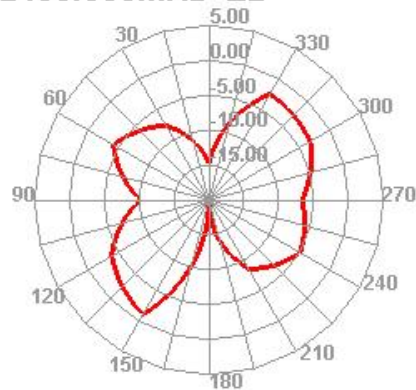
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2450.000MHz E1

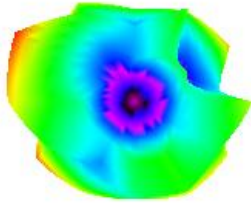


2450.000MHz E2

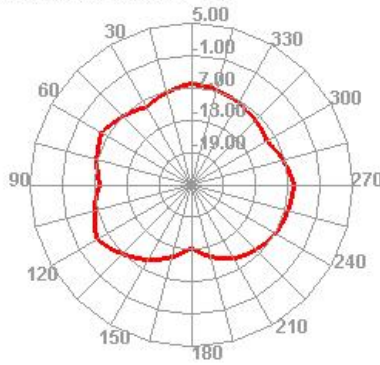




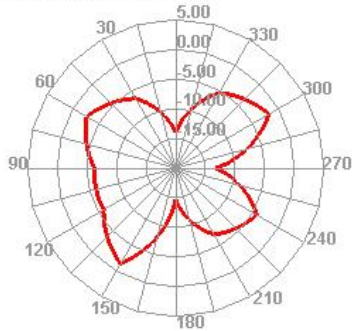
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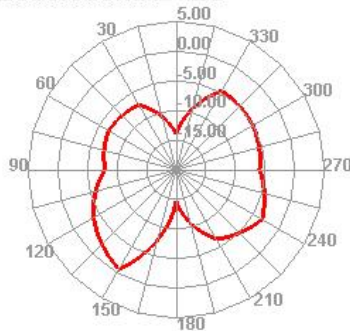
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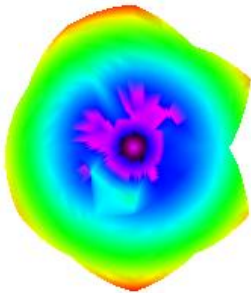
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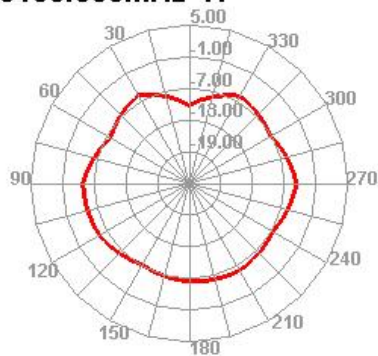
2500.000MHz E2



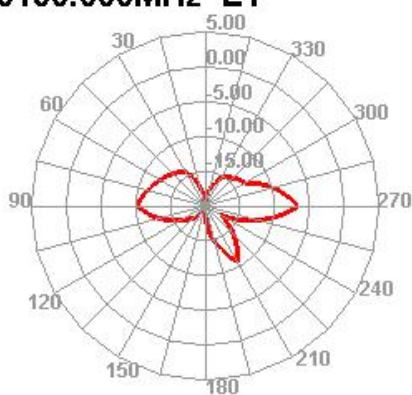
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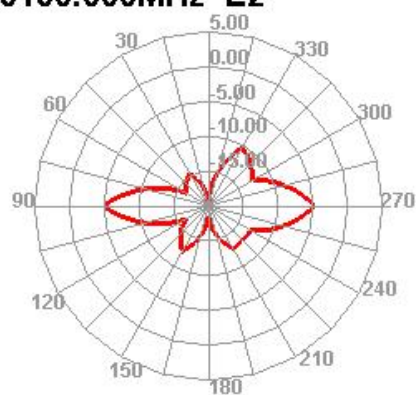
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5150.000MHz E1

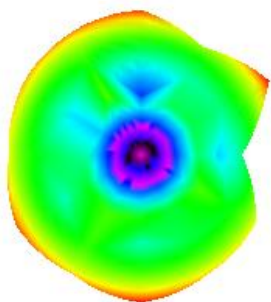


5150.000MHz E2

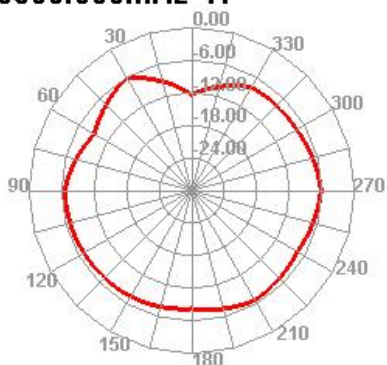




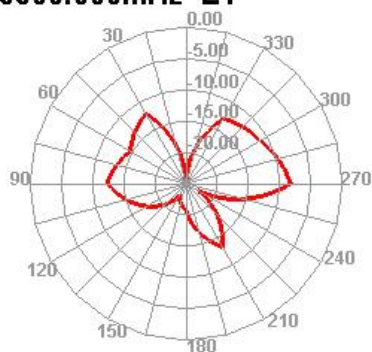
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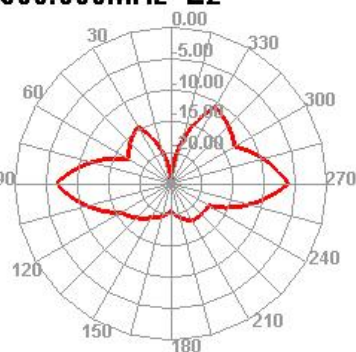
5500.000MHz H



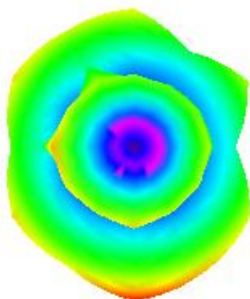
5500.000MHz E1



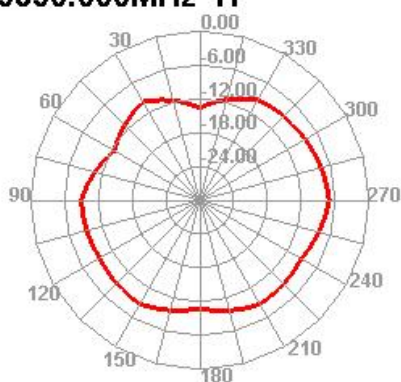
5500.000MHz E2



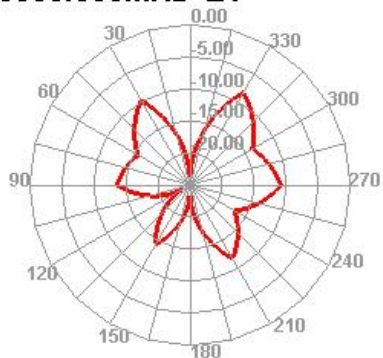
5850.000MHz



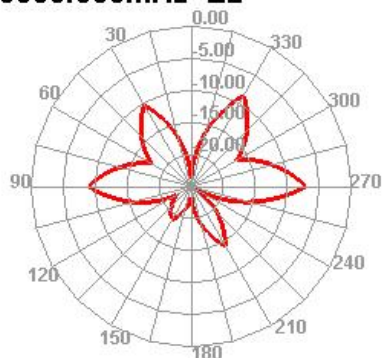
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



Acknowledgement

SPECIFICATION FOR APPROVAL

Customer: Lishun Diantong

Brand: Luhengda

Product Name: 5.8GHz Wi-Fi

Antenna Specifications/Model

Specification 5.8GWIFI Four-pin Soldered Installation Antenna

/part no:

2023.04.03

Date: Upon signing and sealing this acknowledgment, please reply to our company with one copy (or a photocopy); the remainder may be retained by your company for archival purposes. If, prior to your reply to our company with the signed acknowledgment (or its photocopy), you place an order for products of this specification without any specific exceptions, our company will then deem that your company has fully accepted this arrangement. Please return one

Remark: provide one copy of the specification together with your approval stamp and signature, and retain the other copies for your records. In the event that an order is placed for this part number before the stamped and signed specification (or copy) has been returned, and no special explanation is provided, it shall be assumed that full approval has been granted.

Customer Signature and Seal:

Prepared/Date CHECKED/DATE	Reviewed By/Date AUDITOR/DATE	Approved/Date APPROVED/DATE

Address: 2nd Floor, No.7, Dawang Industrial Zone, Yuanshan Street, Longgang District, Shenzhen, Guangdong Province

Phone: 18520850787

Fax:

Specification

Customer Part Number

Customer P/N:

Specifications

Specification: 5.8 GHz Wi-Fi four-pin soldered mounting antenna

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Product Name | Description: 5.8GWIFI Antenna

Supplier:

Lu Hengda

Producer:

Lu Hengda

Remark: Upon receipt of the approval document (or its copy) bearing your company's seal, please reply to our company with one copy (or a photocopy); the remaining copies may be retained by your company for archival purposes. If an order for this specific product specification is placed prior to the return of the approval document (or its copy) bearing your company's seal, and no special explanation is provided, our company will then deem that your company has fully approved the specification. Please return one specification or one copy of it with your chop and signature of approval and retain the others for your record. In the event of an order being placed for this part number before the chop and signed with specification (or copy) is returned and without special explanation, it will be assumed that full approval have been given.

Prepared/Date CHECKED/DATE	Reviewed By/Date AUDITOR/DATE	Approved/Date APPROVED/DATE
Zhang Bingxiang 2023.04.04	Wu Qianjin 2023.04.04	Luo Daxun 2023.04.04

address:
telephone:

URL:
Fax:

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Specification Document Table of Contents

Photographs-----	5	Electrical
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Temperature-----	5	Structural
Drawings-----	6	Environmental and Reliability
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一. 实物图片(Picture)



二. 电气参数 (Electrical parameters) :

Frequency Fr- equency range	5. 15~5.85GHz
Impedance cha- racteristic impe- dance	50Ω
S.W.R. Voltage standing-wave ratio	≤2.0
Antenna Gain Gain	2dBi±0.5@5.8GHz
Polarization Po- larization forms	Vertical polarization
Return Loss Return Loss	-9.5dB MAX

三. 机械参数(Mechanical parameters):

Antenna Colour Antenna Colour	Black
RF Cable Model RF Cable Model	All-copper spring
Connect Type Interface Type	Four-legged welding

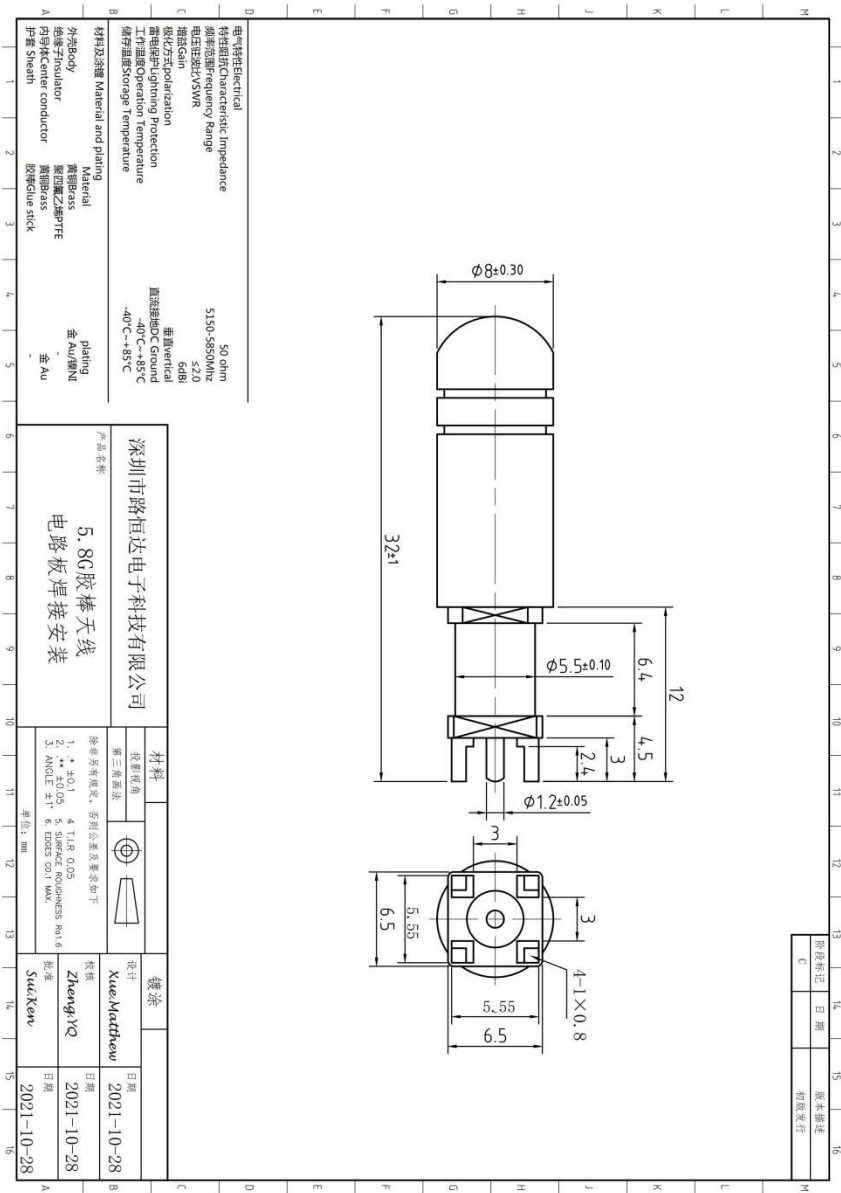
四. 工作/储存温度 (Operating/ Storage Temperature) :

Operating Temperature Working temperature	-40~85℃
Storage Temperature Storage temperature	-40~85℃

address:
telephone:

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5 . 结构图纸:



address:
telephone:

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Fax:

六. 环境与可靠性试验:

1、environmental test

High and Low Temperature Constant Humidity Test Report						
Trial Project	High-temperature, low-temperature, and constant-humidity tests					
Test sample Board Name	5.8 GWiFi antenna		Test Date		2022-04-14	
Experimental / Testing Equipment	Constant Temperature and Humidity Test Chamber Network Analyser		Number of tests		5PCS	
Acceptance standard	1. Nickel shall exhibit no adverse properties such as peeling, cracking, or wrinkling of the surface coating; and in certain cases, it shall also be free from adverse properties including discoloration, cracking, deformation, or delamination. 2. The electrical tests comply with the design requirements; the voltage standing wave ratio test has passed.					
Trial Name	Test item	Ask	Experimental method	Actual test data	Results	
					Sample	Judge
Hot test	Temperature (℃)	+85±3	In accordance with Chapter 9 of GB2423.1-89 Carry out using the prescribed methods	+85	1	Qualified
	Stabilization time of test sample (h) Test duration (h)	12 1		1. 2 2. 3	2	Qualified
	Recovery time(h)	1		1	3	Qualified
					4	Qualified
					5	Qualified
Cold test	Temperature (℃)	-40±3	In accordance with Chapter 8 of GB2423.1-89 As stipulated Proceed with the following method	-40	1	Qualified
	Stabilization time of test specimen (h) Test duration (h)	1 2		1. 2 2. 4	2	Qualified
	Recovery time(h)	1		1. 1	3	Qualified
					4	Qualified
					5	Qualified
Steady-state damp heat test	Temperature (℃)	+40±2	In accordance with GB2423.3-93 Section 5 Zhang The prescribed method Legal progress Proceed	+42	1	Qualified
	Relative humidity (%)	90-95		92	2	Qualified
	Test duration (h)	21		22	3	Qualified
	Recovery time (h)	1		1. 1	4	Qualified
					5	Qualified

address:
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2 、 Salt Spray Test

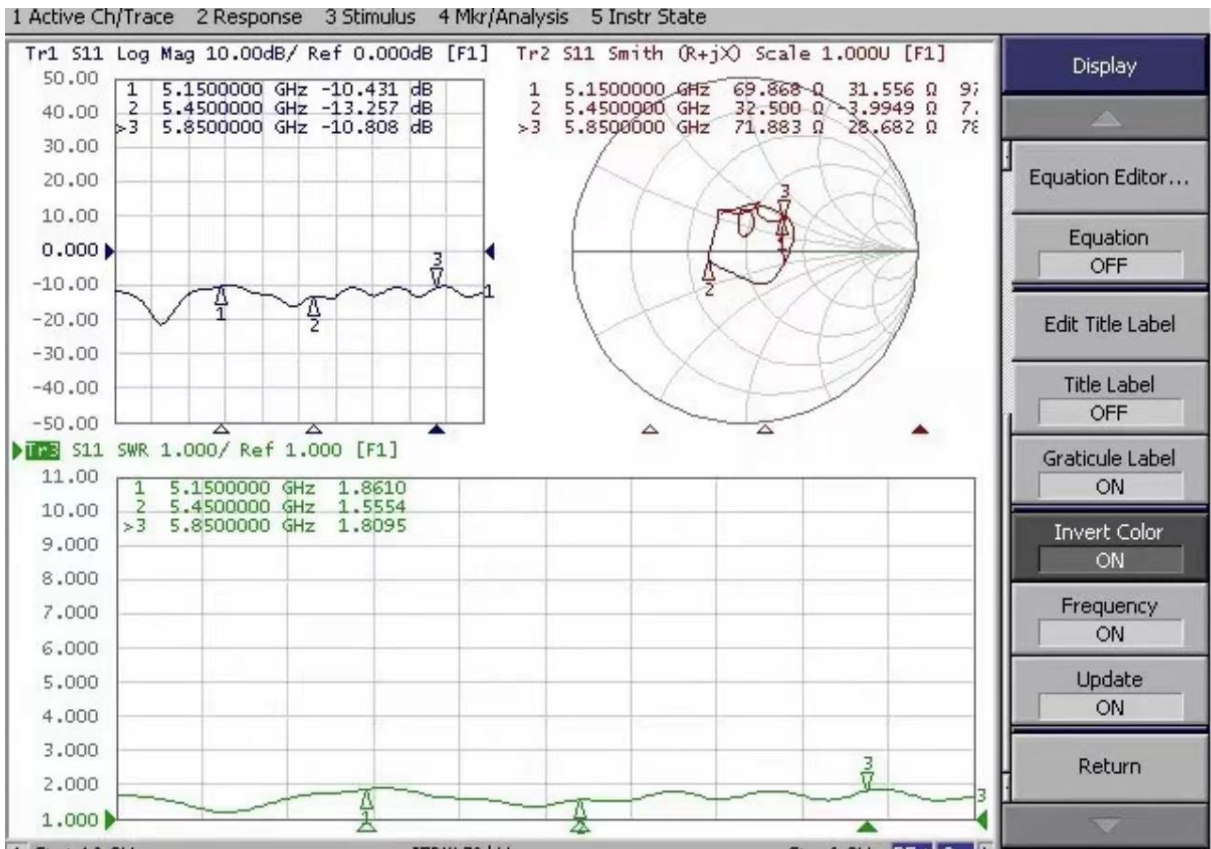
Salt Spray Test Report				
Test item	Salt spray test			
Test Sample Name	5.8GWIFI Antenna	Test Date	2022-04-14	
Device name	Salt spray	Number of tests	5PCS	
Experimental method	Place the test specimen into the prepared salt solution test chamber or the salt spray corrosion chamber to conduct continuous spray testing.			
Salt solution concentration	52g/L	pH value of the salt solution: 6.5-7.2	Test duration: 24 h	
Actual test data	55g/L	pH value of the salt solution: 6.8	Test duration: 26 h	
Test criteria	Tests shall be conducted in accordance with GB/T 10125"Artificial Atmosphere Corrosion Tests and Salt Spray Tests"; the results shall be reported in accordance with GB/T 6461-2002"Classification of specimens and test pieces of nickel-based substrates with nickel-based and other inorganic coatings after corrosion testing"classification.			
End of test				
Number	Corrosion resistance rating	Actual test data	Assessment Results	Remarks
1	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	Qualified	
2	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	Qualified	
3	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	Qualified	
4	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	Qualified	
5	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	Qualified	

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telephone:

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七. 测试参数

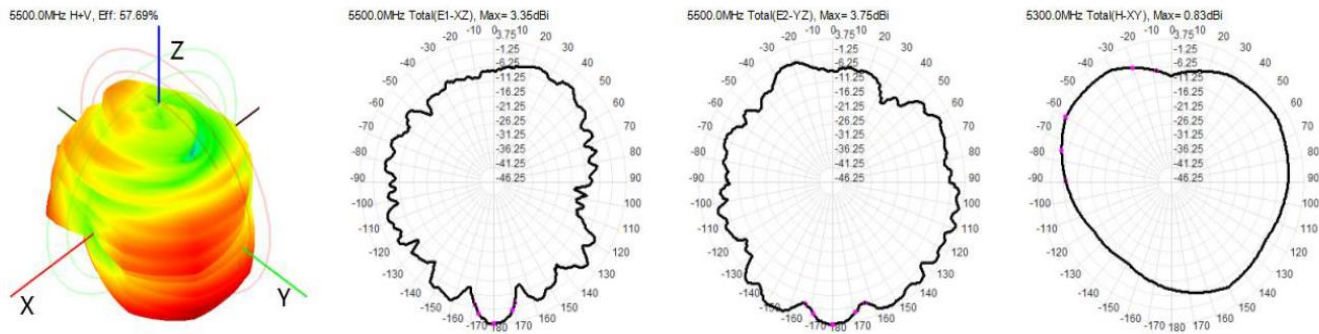
1， V.S.W.R&Return Loss



2， Gain & Efficiency

FETALGA															
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Efficiency (dBi)	-2.43	-2.30	-3.05	-3.05	-4.44	-2.53	-2.84	-2.43	-2.78	-3.05	-2.89	-3.07	-3.12	-3.12	-3.67
Gain (dBi)	3.24	3.78	3.40	3.40	2.86	3.66	3.53	3.65	3.80	3.70	3.03	3.59	3.31	2.96	3.19
Efficiency (%)	47.10	48.92	49.55	49.53	45.96	45.78	42.05	47.14	52.67	49.53	51.38	49.30	48.72	48.78	42.99

2D and 3D Radiation Patterns (2D,3D Radiation Patter)



address:
Telephone:

URL:
Fax: