

Specification Recognition Letter

Specification For Approval

Customer Name: 360

Customer

IPEX (4th Generation)-2.4G FPC Antenna -0.81 Black-L52MM

Part name

Feiyu letter material number: 3.03.0112003119

Part No

Customer material number:

Customer Part No

Customer Confirm Customer confirmation		
Confirm Confirmation	Verify Check	Approval Approver

Manufacturers acknowledge Manufacturer recognition			
Sales Representative Sales	Ficus Drafters	Verify Check	Approval Approver
Royi	Zheng Shaojuan	Chen Xianye	Li He

Thank you for the opportunity to give our company a sample of recognition. If Huimon admits, please sign this form back to our company.

Thank you for giving us the chance to approve samples. If you agree to pass it, please kindly send it back to us.

Shenzhen Feiyuxin Electronics Co., Ltd.

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<http://www.fyxdz.com>

Directory Catalog

1. Product Dimensions Figure 3
2. Product Appearance 4
3. antenna performance parameters4
4. Environmental test 5
5. Antenna performance test 6-7

Modify records

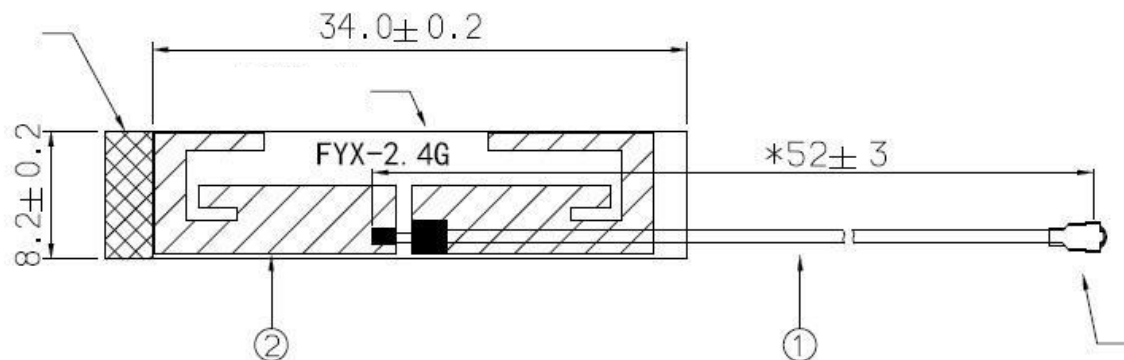
Vers ion	Date	Engin eer	Modify content
A0	2025-5-15	Zheng Shaoju an	New
A1	2025-7-1	Zheng Shaoju an	Add test data

1. Product Size Chart

B	C	D	E	F	END PRODUCT DRAWING成品图
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RoHS Compliant

REV	DATE	DESCRIPTION	ECN NO.	NAME
A0	2025.05.15	新订图面		郑少娟



工作频段 (Frequency Range)	2400-2500MHZ
增益 (Gain)	2±1dB1
电压驻波比 (VSWR)	对比波形-空测
极化方式 (Polarization)	Linear
特性阻抗 (Impedance)	50 ohm

客户料号 (CUSTOMER NO)

⑥				角法 ANGLE PROJECTION	产品名称 (PRODUCT NAME)				
⑤					IPEX-2.4G FPC天线-0.81黑-L52MM				
④				公差 GENERAL TOLERANCE	产品料号 (PRODUCT NO)	单位 (UNIT)	MM	比例 (SIZE)	FREE
③				100~200: ±3.00 50~100: ±2.00 25~50: ±0.20 10~25: ±0.10 1~10: ±0.05		页数 (PAGE)	1 OF 1	幅面 (FORMAT)	A4
②	L34.0*8.2*T=0.2mm-黑色-丝印2.4G	1	FPC		设计 (D S)				
①	IPEX 4代+0.81黑	1	线材		审核 (CHK)				
No.	Name	Qty	Remark	▽:Critical Dim ⊕:Major	核准 (APPD)				



深圳飞宇信电子有限公司
SHENZHEN FYX ELECTRONIC CO.,LTD

2. Product Appearance

Exterior dimension	L34.0 * 8.2*0.2mm	Connector type	IPEX 4 Generation
FPC Color	Black	Cable	0.81 line L52MM

3. antenna performance parameters

Project	Characteristics	Unit
Frequency range	2400~2500	MHz
output impedance	50	Ω
standing wave ratio	Comparison waveform (null test)	--
Gain	2.0 ± 1	dBi
polarization mode	linear polarization	
radiation direction	Omni-directional	
Maximum input power	5	W
Working temperature	-40 to +70	°C
Storage temperature	-40 to +70	°C

4. Environmental Experiment

Environmental Test Report

4.1 High and low temperature constant humidity test

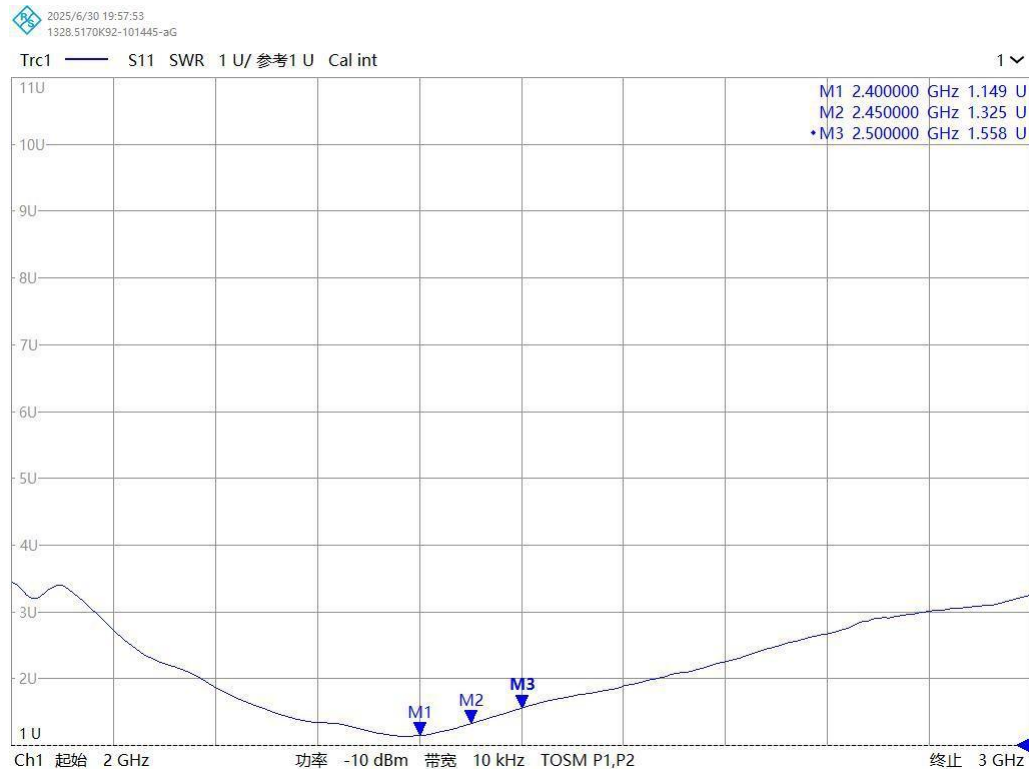
Test Items	High temperature, low temperature and constant humidity test			
Testing equipment	Constant temperature and humidity test chamber			
Inspection standard	1. The coating on the metal surface shall be free of such defects as shedding, cracks, wrinkles, etc. Non-metallic parts shall not be discolored, cracked or changed. shape, degumming and other phenomena.			
Test Name	Test Items	Requirements	Test Method	Result judgment
High temperature test	Temperature (°C)	70 ± 3 °C	Test steps: a) Put the tested part into the test chamber, and then Adjust the temperature of the high temperature box to 70 ± 3 °C,, Monitor time. B) After the test, place it at room temperature for 1 hour. Line regular inspection.	Qualified
	Sample test duration (H)	12h 1H		
	Recovery time (H)			
Low temperature test	Temperature (°C)	-40 ± 3	Test steps: a) Put the tested part into the test chamber, and then The temperature of the low temperature box is adjusted to -40 ± 3 °C, and the monitor Control time. B) After the test, place it at room temperature for 1 hour. Line regular inspection.	Qualified
	Test sample duration (H)	12h 1H		
	Recovery time (H)			
Constant damp heat test	Temperature (°C)	40 ± 3 °C	a) Put the tested part into the test chamber, and then The temperature of the test chamber is adjusted to 40 ± 3 °C, the humidity is 70-85%, and the monitoring time is maintained. B) After the test, place it at room temperature for 1 hour.	Qualified
	Relative humidity (%)	70-85%		
	Test duration (H)	24h		
	Recovery time (H)	1H		

			Line regular inspection.	
Inspector: Guo Guangfen			Approved by: Xie Zhoujun	

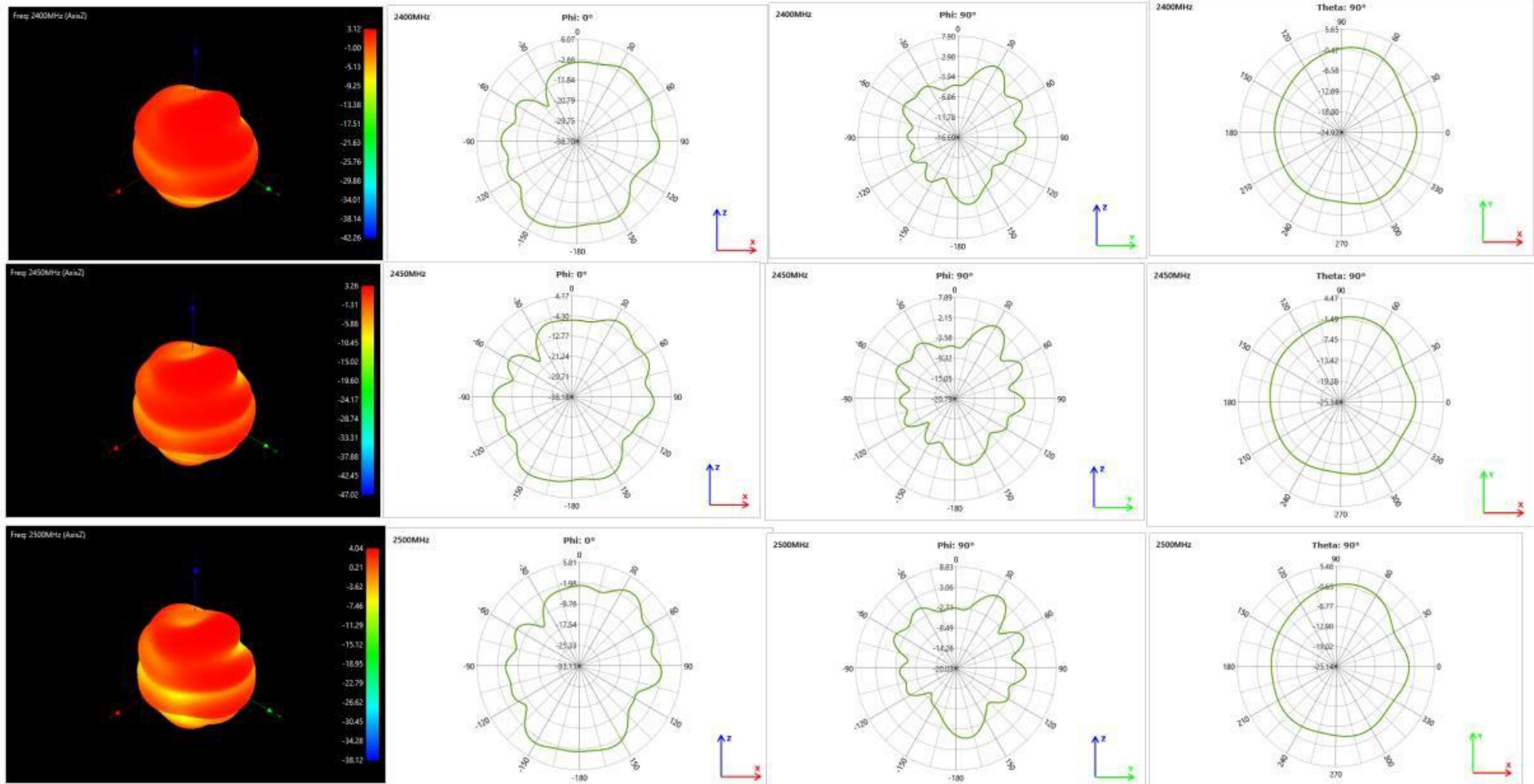
4.2 Salt spray test

Test Items	Salt spray test			
Testing equipment	Salt spray test machine			
Inspection standard	1. There is no peeling of the coating on the metal surface; the appearance is free of rust, corrosion, oxidation and other undesirable phenomena.			
Test Name	Test Items	Requirements	Test Method	Result judgment
Salt spray test	1. NaCl concentration: 2. Air pressure: 3. PH: 4. Spray volume: 5. Salt water test temperature setting a. Laboratory temperature: B. Pressure barrel temperature: 6. Test time:	40-60g/1kg $1.0 \pm 0.01 \text{ kgf/m}^2$ 6.5-7.2 1.0-2.0ml/80c/h. $35 \pm 1 \text{ }^\circ\text{C}$ $47 \pm 1 \text{ }^\circ\text{C}$ 24h	Test steps: a) Modulate the salt spray tester to the relevant test conditions. B) Put the tested part in salt spray Testing machine, placed for 24 hours. Rinse with clean water after the test. Test the appearance of the tested part, and perform regular Inspection.	Qualified
Inspector: Guo Guangfen			Approved by: Xie Zhoujun	

5. Antenna Performance Test



Frequency(MHz)	Gain(dBi)	Efficiency(%)
2400	3.12	55.06
2410	2.63	53.72
2420	2.72	53.27
2430	2.39	53.73
2440	3.12	54.82
2450	3.26	55.54
2460	3.29	57.68
2470	3.54	58.81
2480	3.37	56.52
2490	3.68	53.63
2500	4.04	53.25



Electronics Co., Ltd.