

***SPECIFICATION FOR APPROVAL***

SUPPLIER: Shenzhen Feiyuxin Electronic

PRODUCT NO. : IPEX-2. 4G -113 -L267MM

SUPPLIER NO. : 3. 03. 0101003920

HUIZHI NO. : A755PEX2401L

HUIZHI DESCRIPTION:

HUIZHI APPROVAL			SUPPLIER APPROVAL		
QUALITY	R&D	SAFTY	APPROVED	CHECKED	DRAWING
			李贺	周锡华	郑少娟

CUSTOMER: HUIZHOU HUIZHI TECHNOLOGY  
CO.,LTD

ADD: Huizhi technology,third floor,building  
C1,Taihong Industrial,Daya  
Bay,Huizhou

TEL: 0755-26742670

FAX: 86-755-26740494

CUSTOMER: Shenzhen Feiyuxin Electronic  
Co.,Ltd

ADD: No. 76, Baotong South Road,  
Xikeng Industrial Zone, Henggang  
Town, Longgang District, Shenzhen

TEL: 0755-89737230

FAX: 0755-89737181

# Specification For Approval

Customer: HUIZHI

Part name: IPEX-2.4G-113 -L267MM

Part No: 3.03.0101003920

Customer Part No: A755PEX2401L

Customer confirmation		
Confirmation	check	Approver

Manufacturer recognition			
Sales	Drafters	check	Approver
梅丽	郑少娟	周锡华	李贺
Thank you for giving us the chance to approve samples. If you agree to pass it, please kindly send it back to us.			

<http://www.fyxdz.com>

## Catalog

1. Product dimension drawing .....	3
2. Product appearance .....	4
3. Antenna performance parameters .....	4
4. Cable specification .....	4-5
5. Environmental experiment .....	5-8
7. Standing wave ratio of antenna .....	8-9

## Modification Record

version	Date	Engineer	Modifying Content
A0	2022-9-19	郑少娟	new
A1	2022-10-31	郑少娟	Add test data

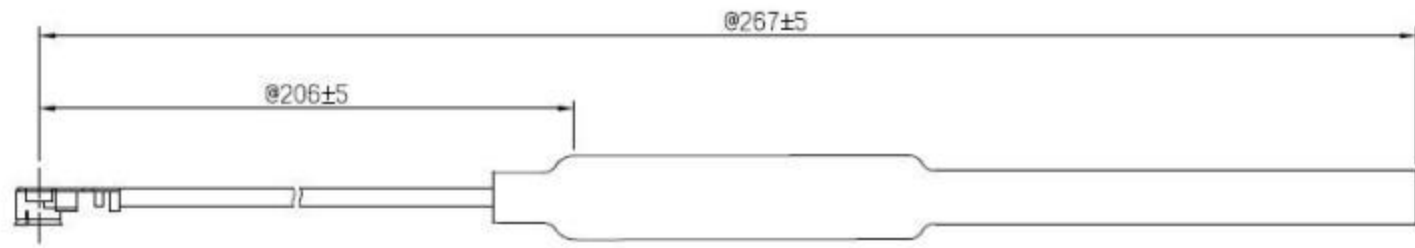
---

1. Product size drawing

RoHS Compliant

1

2



3

要求:

1. 成品需100%网分测试OK;The finished product shall be 100% OK in the network division test;
2. 成品需100%全检OK;The finished product shall be 100% fully inspected OK;
3. 产品符合ROHS要求;Products meet ROHS requirements;
4. 标@为重点管控尺寸;Mark @ as the key control size;
5. 未注公差请以一般公差为准.If no tolerance is noted, the general tolerance shall prevail.

4

客户料号 (CUSTOMER NO)  
A755PEX2401L

5

工作频段 (Frequency Range)	2400~2500MHz
增益 (Gain)	2dBi
电压驻波比 (VSWR)	对比波形
极化方式 (Polarization)	Linear
特性阻抗 (Impedance)	50 ohm

用法 ANGLE PROJECTION 	产品名称 (PRODUCT NAME)				
	IPEX-2.4G 雨管天线-113次-L267MM				
公差 GENERAL TOLERANCE 100-200: ± 3.00 50-100: ± 2.00 25-50: ± 0.20 10-25: ± 0.10 1-10: ± 0.05	产品料号 (PRODUCT NO)	单位 (UNIT)	M M	比例 (SIZE)	FREE
	3.03.0101003920	页数 (PAGE)	1 OF 1	幅面 (FORMAT)	A4
▽:Critical Dim @:Major	设计 (D S)	李毅	深圳飞宇信电子有限公司 SHENZHEN FYX ELECTRONICS CO.,LTD		
	审核 (CHK)	周锡华			
	核准 (APPD)	李贺			

**2. Product appearance**

Size	L267MM	Connector	IPEX
colour	Heat shrinkable tube black	Cable	1.13

**3. Antenna performance parameters**

Items	Specifications	unit
Center Frequency	2400-2500	MHz
Output impedance	50	$\Omega$
V. S. W. R	Compare the waveform	-
Polarization mode	Linear polarization	
Radiation direction	omnidirectional	
Maximum input power	5	W
working temperature	-40~+70	$^{\circ}\text{C}$
Storage temperature	-45~+75	$^{\circ}\text{C}$

**4. Cable specification**

## 1.13 Structure chart


**Structure parameter**

	Material Science	(mm) Diameter
1. Inner conductor	Silver plated copper wire	$7/0.08 \pm 0.02$
2. Insulator	(PE)	$0.66 \pm 0.02$
3. Outer conductor	Tinned copper wire	$0.88 \pm 0.05$

4. Sheath	FEP	1.13±0.05
<b>Electric performance parameters</b>		
(pF/m) Capacitance		96±3
d (ohm)		50
(%) Rate		66
(mm) Bending radius		≤7
(VMS) Maximum working voltage		1000
(MHz) Maximum operating frequency		6000
(°C) Operating temperature range		-40~ +80
<b>Attenuation</b>		
	(MHz)	(≠ dB/m)
	100	0.42
	400	0.58
	1000	2.20
	2000	3.40
	3000	4.20
	4000	4.50
	5000	5.20
	6000	5.60

## 5. Environmental experiment

### Environmental test report

#### 5.1 High low temperature and constant humidity test

No				Specifications	
<b>Items</b>	High temperature, low temperature and constant humidity test				
Testing equipment	Alternating constant temperature and humidity test chamber		number		
Inspection standard	1. The coating on the metal surface shall be free of peeling, cracking, wrinkling and other defects ; the non-metal part shall not have discoloration, cracking, deformation, degumming and other phenomena.				
Test name	Test items	requirement	test method		Result judgment





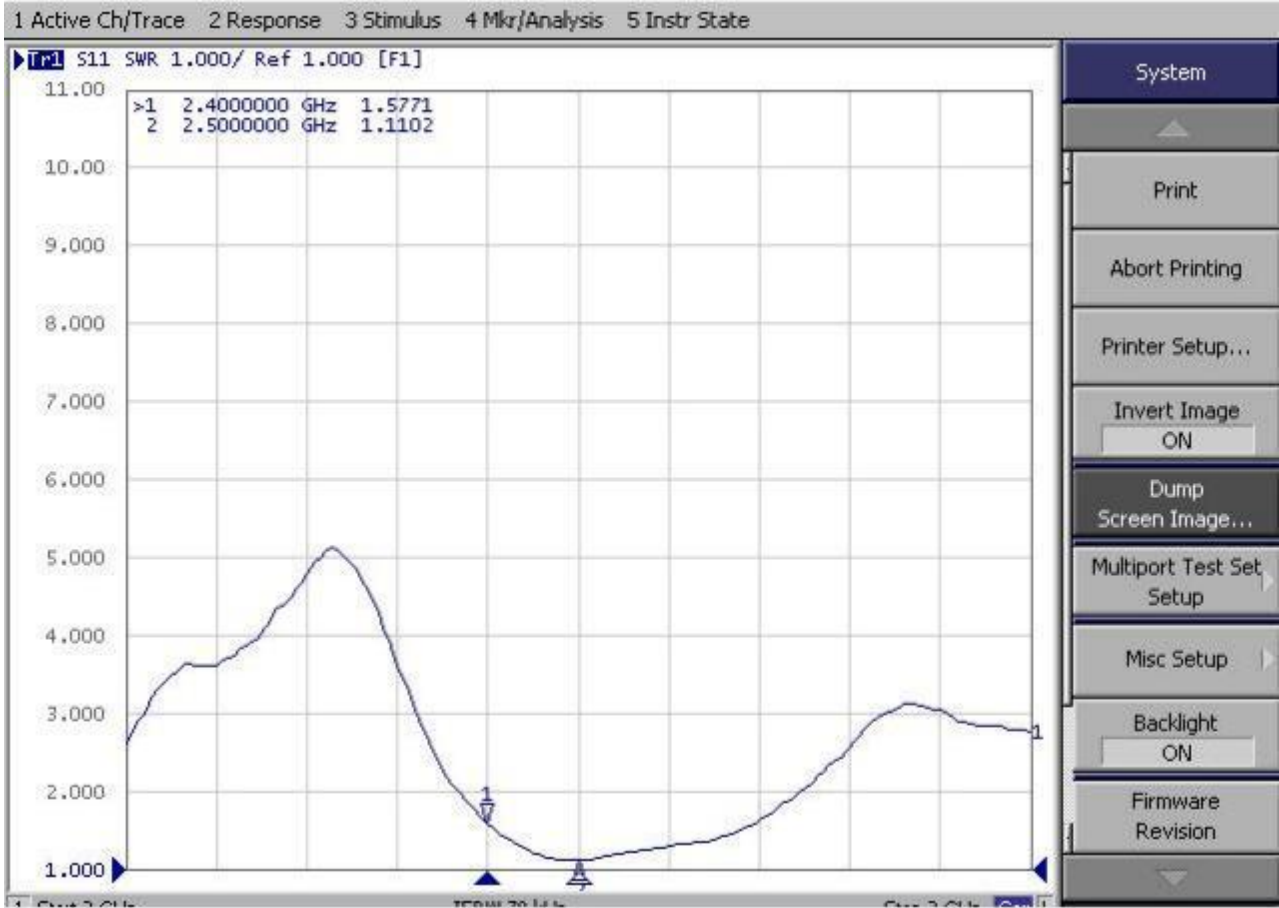
Items	Free fall test			
Testing equipment	1m high desktop	number		
Inspection standard	1. The product has no defects such as falling off, cracking, etc. and no deformation in appearance when it falls 1 meter high.			
Test name	Items	requirement	test method	Result judgment
Free fall test	Drop height 1000mm	Drop both sides twice	Test procedure: a) Drop the test piece at a height of 1000mm, and carry out routine inspection after the test.	OK
Inspector: 陆晓君		Audit: 李晓屏		Approval: 刘纯

**5.3 Salt spray test**

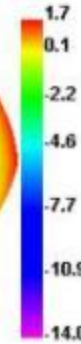
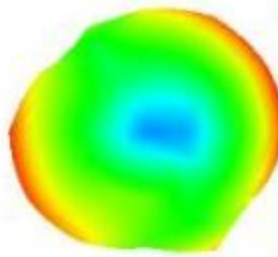
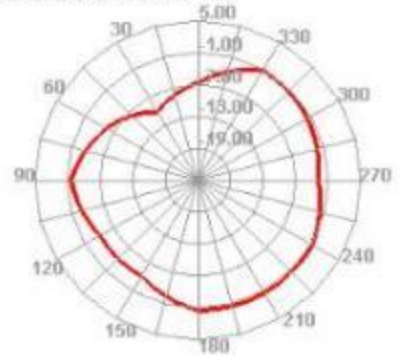
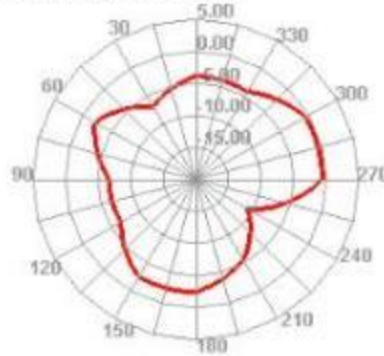
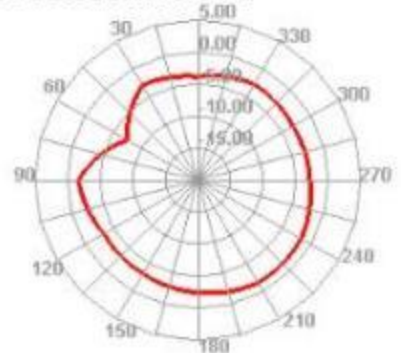
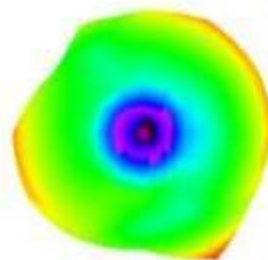
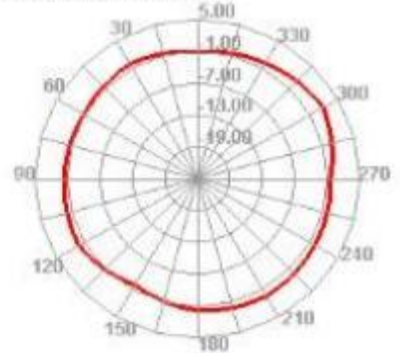
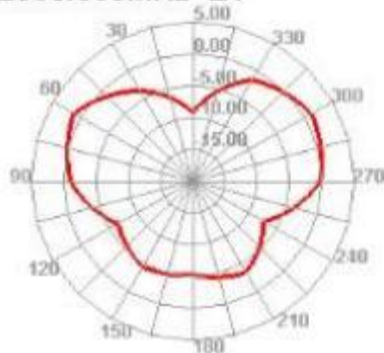
NO	Specifications			
Items	Salt spray test			
Testing equipment	Salt spray tester	number		
Inspection standard	1. The coating on the metal surface shall not fall off ; the appearance shall be free of rust, corrosion, oxidation and other adverse phenomena.			
Test name	Items	requirement	test method	Result judgment
Salt spray test	1. NaCl concentration: 2. Air pressure: 3. PH value: 4. spray volume: 5. Salt water test temperature setting a. Laboratory temperature: b. Pressure tank 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±1℃ 47±1℃ 24H	Test procedure a) Adjust the salt spray tester to relevant test conditions. b) Put the test piece into the salt spray testing machine for 24 hours. After the test, rinse with clean water, visually inspect the	OK

			appearance of the tested parts, and carry out routine inspection	
Inspector: 陆晓君		Audit: 李晓屏		Approval: 刘纯

### 7. Standing wave ratio of antenna



Passive Test For 2400-2500		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	55.48	1.89
2410	54.25	1.84
2420	52.58	1.73
2430	54.5	1.67
2440	59.59	1.78
2450	57.36	1.57
2460	61.67	1.85
2470	61.01	1.89
2480	60.1	1.67
2490	61.42	1.81
2500	60.41	1.85

**2400.000MHz**

**2400.000MHz H**

**2400.000MHz E1**

**2400.000MHz E2**

**2500.000MHz**

**2500.000MHz H**

**2500.000MHz E1**

**2500.000MHz E2**
