

SPECIFICATION FOR APPROVAL

SUPPLIER: Shenzhen Feiyuxin Blectronice Co., Ltd

PRODUCT NO. : IPEX-2. 4G5. 8G -113 -L260MM-L315MM

SUPPLIER NO. : 3. 03. 1001003905

HUIZHI NO. : A755PEX2402L

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
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CUSTOMER: Shenzhen Feiyuxin Electronice
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Specification For Approval

Customer: _____

Part name: IPEX-2.4G/5.8G -113 - L260MM-L315MM

Part No: 3.03.1001003905

Customer Part No: A755PEX2402L

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

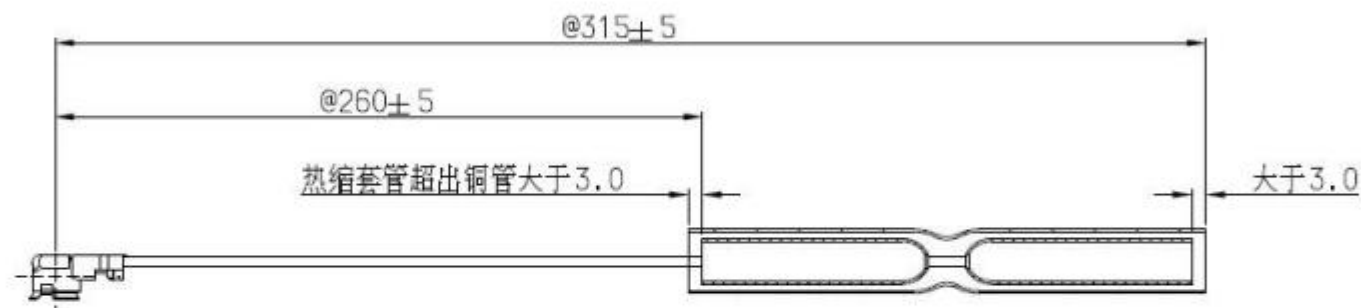
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Modification Record

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



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.

客户料号 (CUSTOMER NO)

A755PEX2402L

工作频段 (Frequency Range)	2400-2500/5150-5850MHZ
增益 (Gain)	2dB1
电压驻波比 (VSWR)	对比波形
极化方式 (Polarization)	Linear
特性阻抗 (Impedance)	50 ohm

角法 ANGLE PROJECTION 	产品名称 (PRODUCT NAME)				
	IPEX-2.4G/5.8G 铜管天线-113灰-线长L260MM-总长L315MM				
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)	MM	比例 (SIZE)	1:1
	3.03.1001003905	页数 (PAGE)	1 OF 1	幅面 (FORMAT)	A4
	设计 (D S)	郑少娟			
	审核 (CHK)	周锦华			
Critical Dim @:Major	核准 (APPD)	李贺			
		深圳飞宇信电子有限公司 SHENZHEN FLY ELECTRONIC CO.,LTD			

2. Product appearance

Size	L315MM	Connector	IPEX
colour	Heat shrinkable tube black	Cable	1.13

3. Antenna performance parameters

Items	Specifications	unit
Center Frequency	2400-2500/5150-5850	MHz
Output impedance	50	Ω
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 ± 0.02
3. Outer conductor	Tinned copper wire	0.88 ± 0.05

4. Sheath	FEP	1.13±0.05
Electric performance parameters		
电容 (pF/m) Capacitance		96±3
d (ohm)		50
Rate (%)		66
Bending radius (mm)		≤7
Maximum working voltage (VMS)		1000
Maximum operating frequency (MHz)		6000
Operating temperature range (°C)		-40~ +80
Attenuation		
	(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		
Items	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

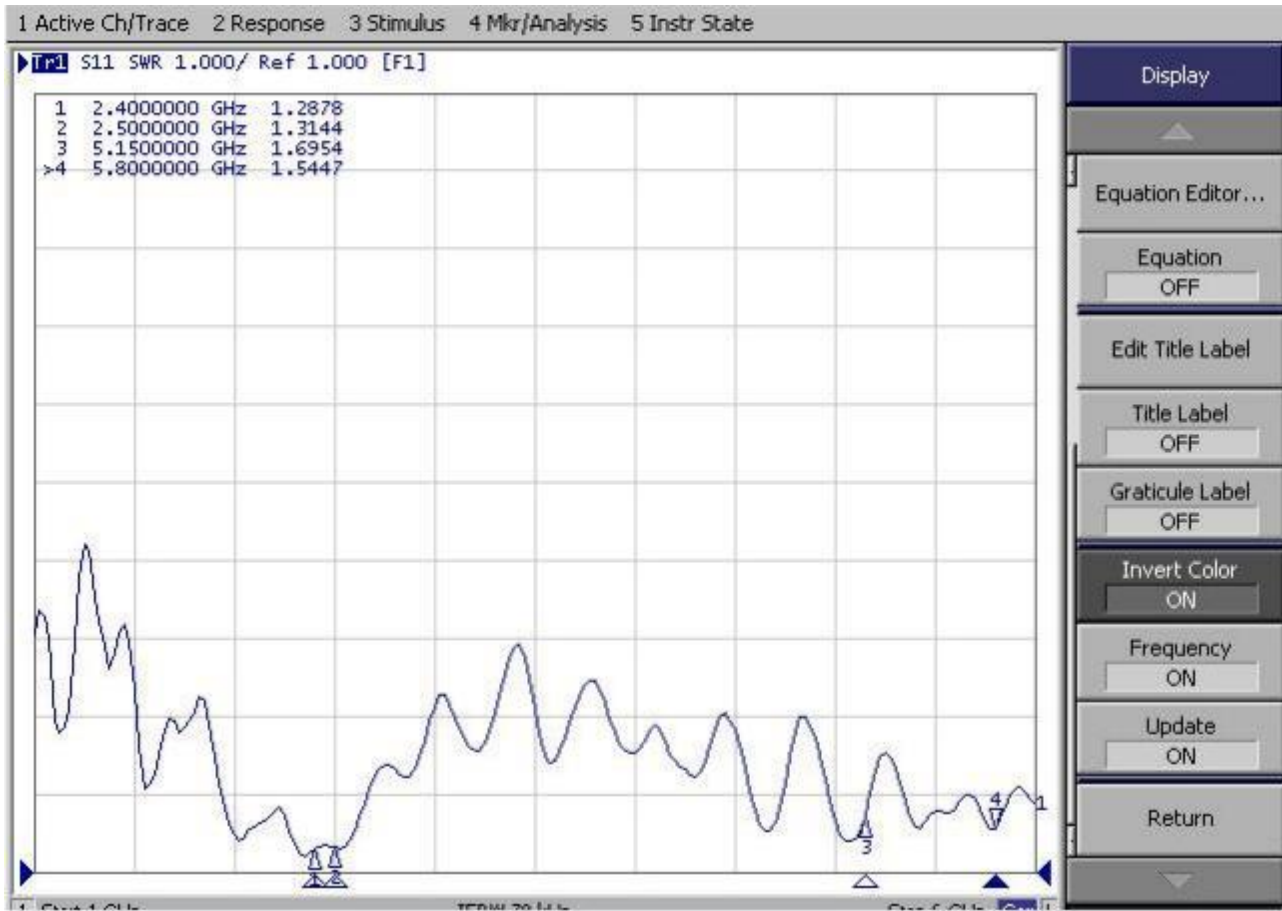
Items	Free fall test			
Testing equipment	1m high desktop		number	
Inspection standard	1. The product has no defects such as falling off, cracking, etc. and no deformation in appearance when it falls 1 meter high.			
Test name	Items	requirement	test method	Result judgment
Free fall test	Drop height 1000mm	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。 $35 \pm 1^\circ\text{C}$ $47 \pm 1^\circ\text{C}$ 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 appearance of the	OK

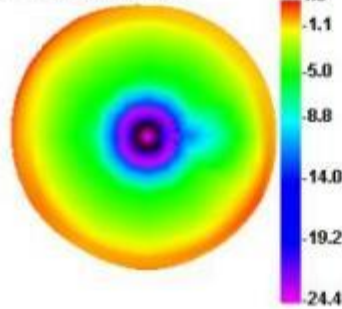
			tested parts, and carry out routine inspection	
Inspector: 陆晓君		Audit: 李晓屏		Approval: 刘纯

6. Standing wave ratio of antenna

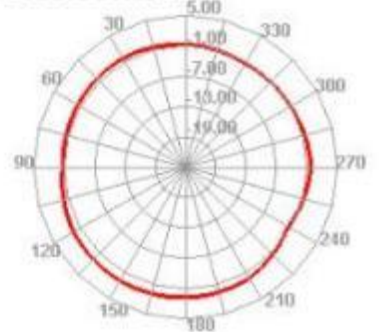


Passive Test For 2400-2500		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	58.28	1.51
2410	57.11	1.82
2420	55.78	1.68
2430	58.01	1.7
2440	62.23	1.01
2450	67.64	1.27
2460	67.18	1.29
2470	63.67	1.08
2480	65.93	1.28
2490	67.39	1.51
2500	64.38	1.23

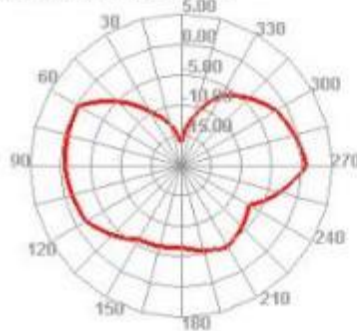
2400.000MHz



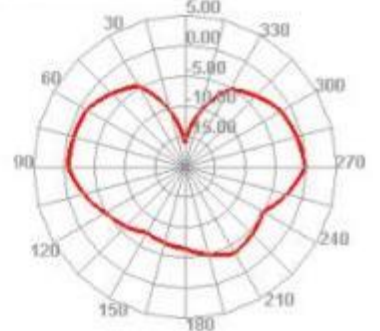
2400.000MHz H



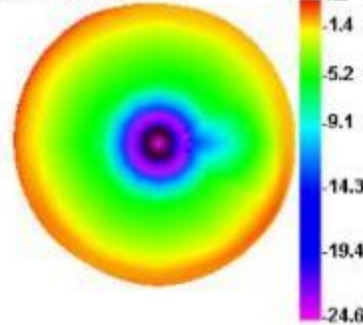
2400.000MHz E1



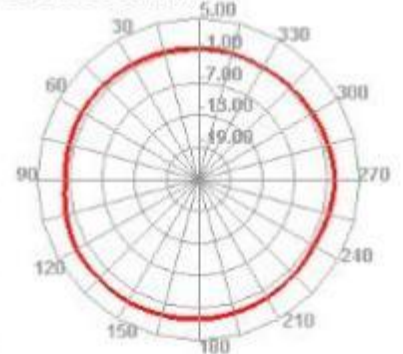
2400.000MHz E2



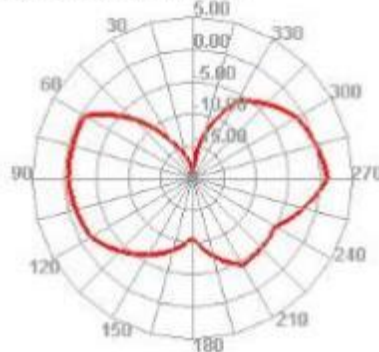
2500.000MHz



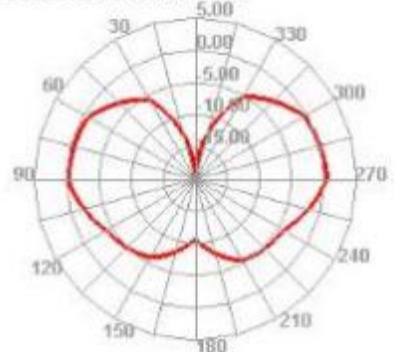
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



Passive Test For 5150-5850		
Freq (MHz)	Effi (%)	Gain (dBi)
5150	48.82	1.45
5220	45.68	1.5
5290	49.41	1.93
5360	45.38	1.73
5430	48.56	1.38
5500	46.16	1.48
5570	43.26	1.74
5640	48.55	1.25
5710	48.77	1.35
5780	45.95	1.61
5850	46.15	1.63

