

SPECIFICATION FOR APPROVAL

CUSTOMER(客户名称)		
CS P/N(客户机种)		
PART NAME(品名)	内置PCB板天线 (RT-PCB162 V0.0) 2.4G/5.8G ϕ 0.81 黑色 L=80MM 带四IPEX ROHS	
FREQUENCY(频率)	2.4-2.5GHz&5.15-5.85GHz	
RTANT NO. (物料编号)		
DATE(日期)	2023.12.25	
出样签章		
APPROVED BY 核准	CHECKED BY 确认	DRAWED BY 制作
Remark(备注):		
客户承认签章		
APPROVED BY 核准	CHECKED BY 确认	TESTED BY 检测
Sign(客户确认签字盖章): _____		

PRODUCTION COMPANY:
FN-LINK TECHNOLOGY LIMITED

Tel: +86-755-2955-8186

Http://www.fn-link.com

Office: 14th floor, Block B, phoenix zhigu, Xixiang Street, Baoan District, Shenzhen

Factory: NO.8, Litong RD., Liuyang Economic & Technical Development Zone, Changsha, CHINA

1. Contents项目表

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2. Revision history变更履历

Revision版本	Date日期	Change the content变更内容
X0	23.12.25	New version新版

3. 产品实物图片Product picture



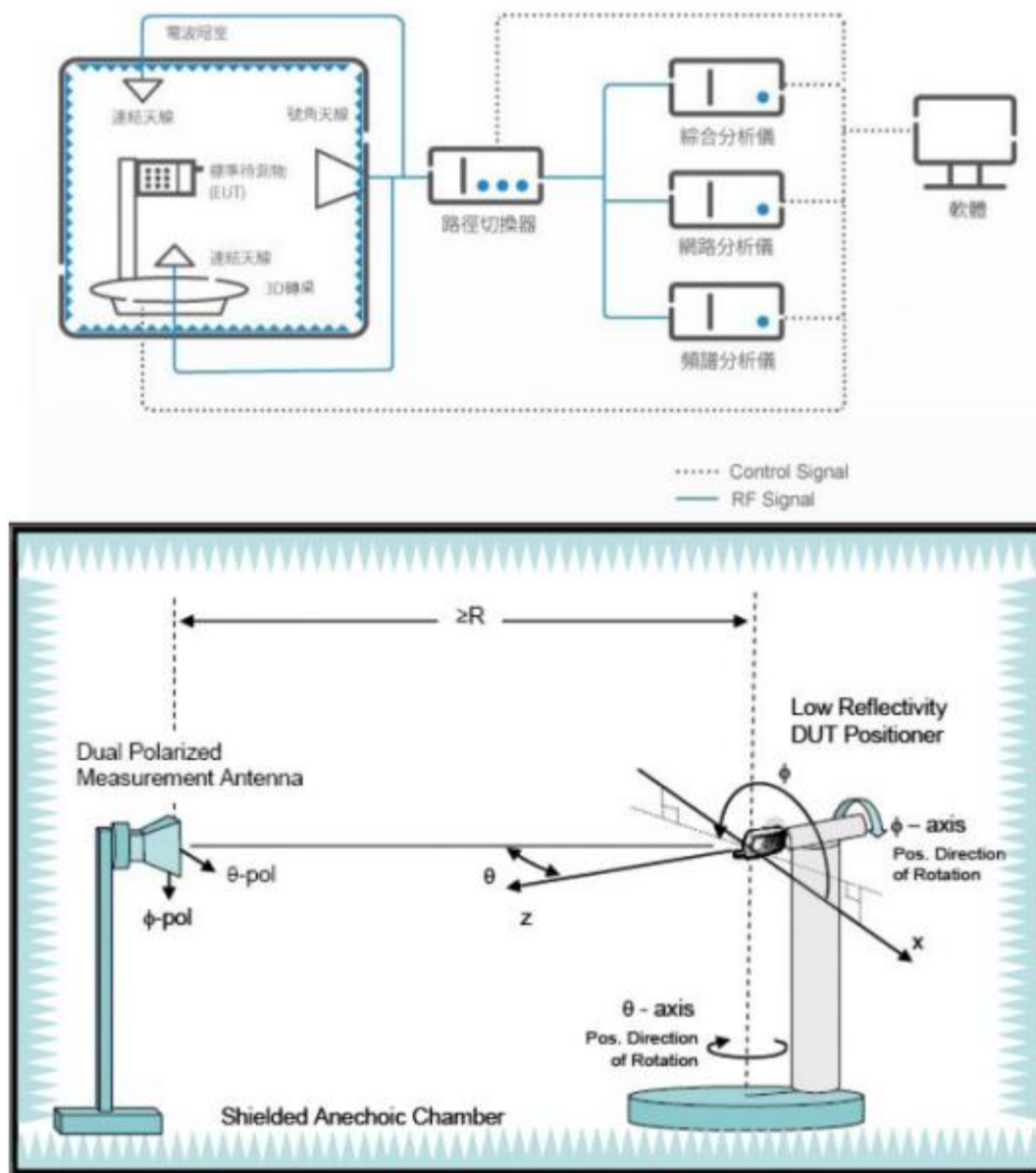
4. 规格表Specification

A. Electrical Properties	
Frequency Rang频段范围	2.4-2.5GHz&5.15-5.85GHz
Impedance特性阻抗	50 Ω Nominal
VSWR电压驻波比	2.0Max. (With case带机壳)
Gain (peak)增益 (峰值)	2.77dBi
Efficiency效率	40%
Out of roundness不圆度	3.0 dBi (Max.)
Radiation辐射方式	Omni-Directional/全向
Polarization极化方式	Linear Vertical/垂直
B. Physical Properties	
Connector Type连接方式	Four generations 四代IPEX
Cable线材	$\Phi 0.81\text{mm}$
Antenna Radiator天线振子体	FPC
C. Environmental	
Storage Temp存储环境范围	-40℃~+80℃
Operating Temp工作环境	-10℃~+65℃
Storage humidity存储湿度	95%
Working humidity工作湿度	5%~95%

5. 电性测试报告Electrical Test Report

5.1 Test equipment

OTA 系統架構圖



5.2 Network analyzer test report 网络分析仪测试报告

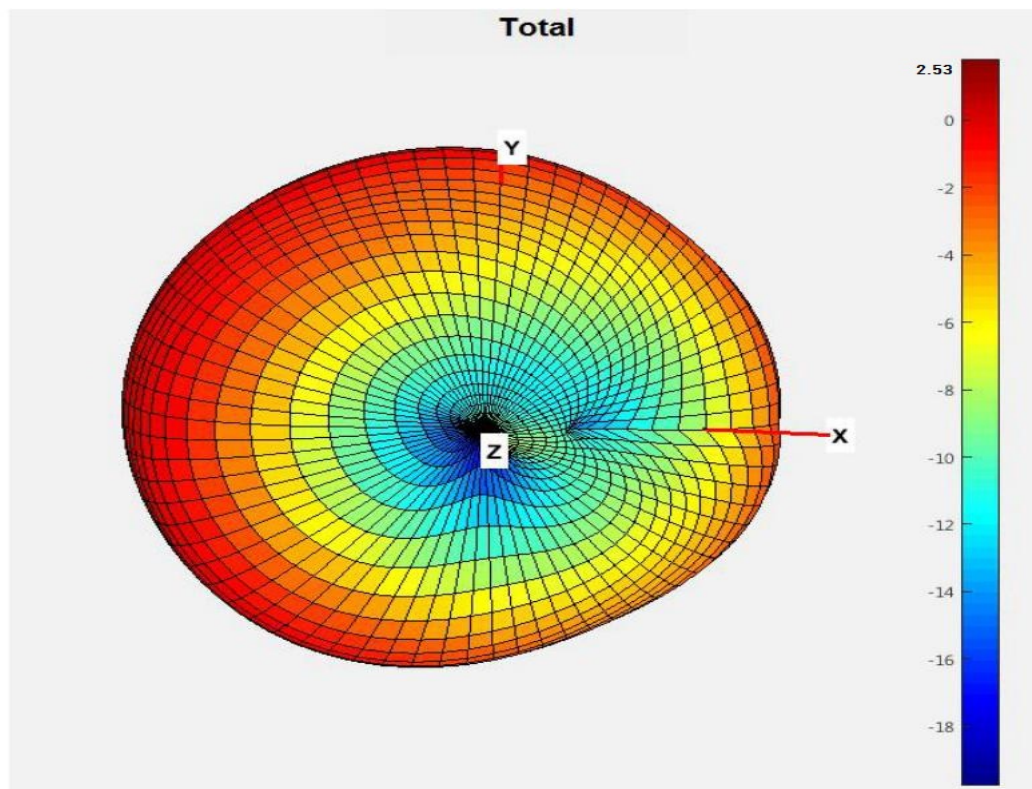


5.3 Dark room passive test data 暗室无源测试数据

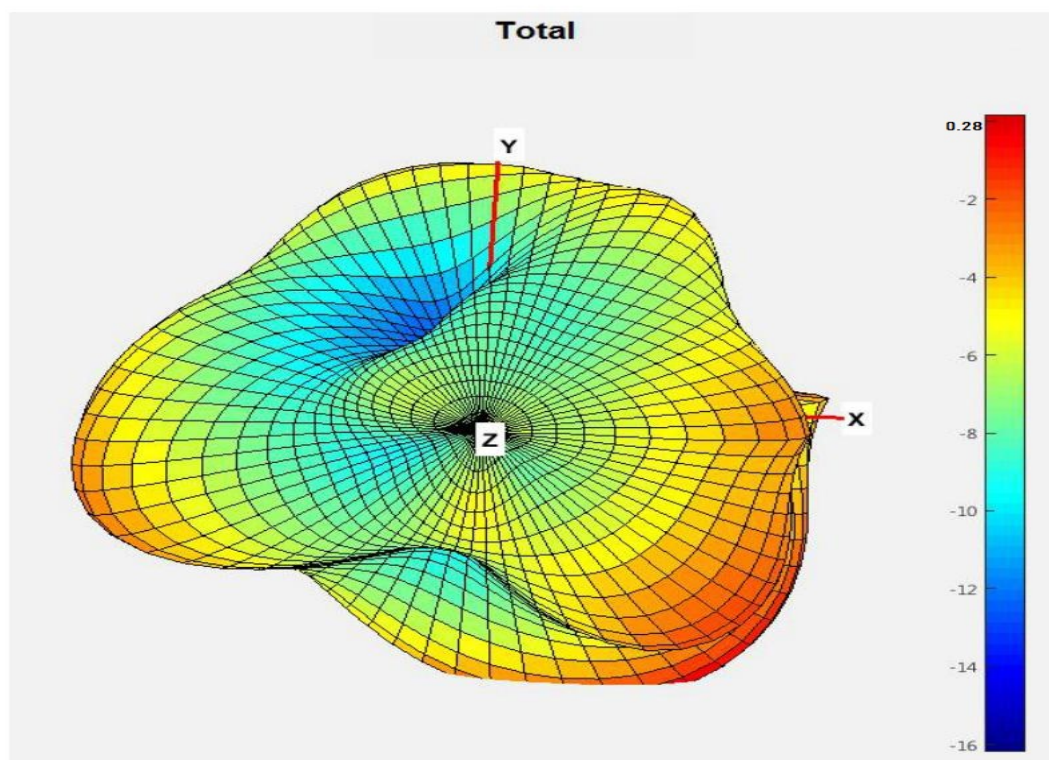
2.4G			5G		
频率 (MHz)	效率 (%)	增益 (dBi)	频率 (MHz)	效率 (%)	增益 (dBi)
2400	59.16	2.77	5150	39.17	0.08
2410	57.81	2.55	5200	35.65	0.2
2420	56.62	2.37	5250	34.59	-0.24
2430	56.49	2.34	5300	34.36	-0.12
2440	56.1	2.33	5350	36.98	0.25
2450	57.68	2.53	5400	42.76	0.62
2460	54.58	2.39	5450	46.67	0.79
2470	54.2	2.48	5500	43.35	0.28
2480	57.54	2.8	5550	41.5	-0.37
2490	54.7	2.6	5600	32.11	-0.46
2500	53.09	2.42	5650	31.48	-0.72
			5700	32.24	-1.02
			5750	35.08	-0.47
			5800	38.9	0.84
			5850	34.83	0.44

5.3 3D Directional pattern 3D方向图

2450MHz



5500MHz

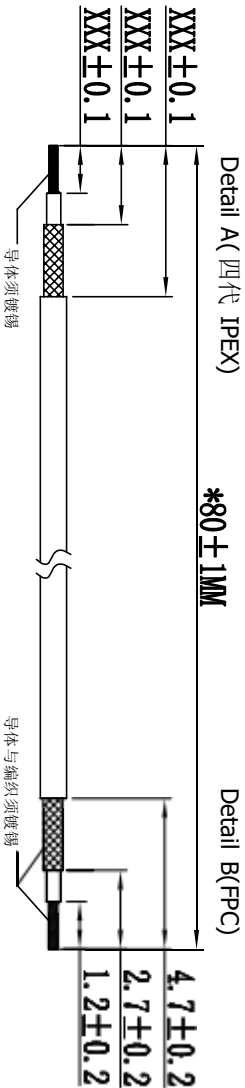
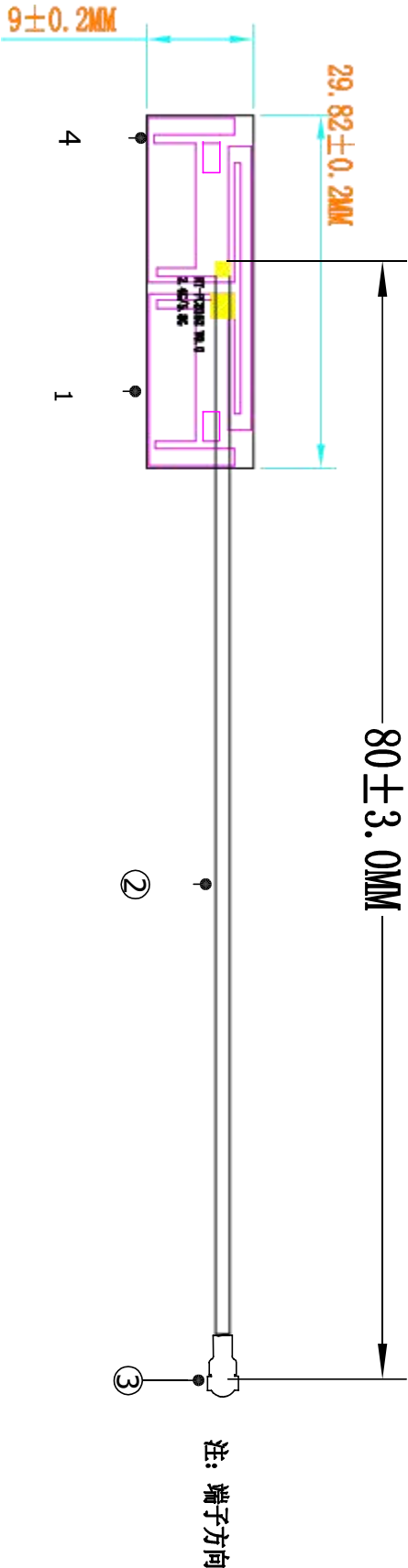


6. 样品检验报告Sample inspection report

日期: 2023. 12. 15

送检数量		5PCS	合格数量		5PCS			
检验项目		检验标准及说明	检验结果					判定
			No. 1	No. 2	No. 3	No. 4	No. 5	
外观	线材	对比无色差、无脏污、无破损，无刮伤	pass	pass	pass	pass	pass	■OK □NG
	IPEX	对比无色差、无脏污、无破损，无刮伤	pass	pass	pass	pass	pass	■OK □NG
	PCB/FPC	对比无色差、无脏污、无破损，无刮伤	pass	pass	pass	pass	pass	■OK □NG
	焊接	焊接后不能冷焊、假焊、锡尖、锡珠、漏焊	pass	pass	pass	pass	pass	■OK □NG
	浸锡	浸锡后不能有锡尖，凸锡球，无浸锡、变形						□OK □NG
	其他							□OK □NG
主要尺寸	1	80±3mm	80	80	80	80	80	■OK □NG
电气及功能测试	Frequency Rang	2.4-2.5GHz 5.15-5.85GHz						
	VSWR	<5.5	pass	pass	pass	pass	pass	■OK □NG
机械性能	Cable与IPEX 组装拉力	>1.0kg	1.7	1.7	1.6	1.6	1.7	■OK □NG
备注								
最终判定		☒ 合格 ☐ 不合格 ☐ 条件认可						

SIGN	DATE	DESCRIPTION	APPROVER
A0	23.11.25	新版发行	

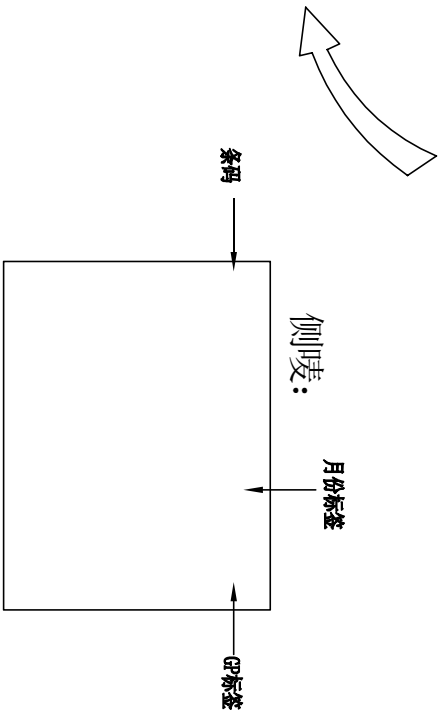
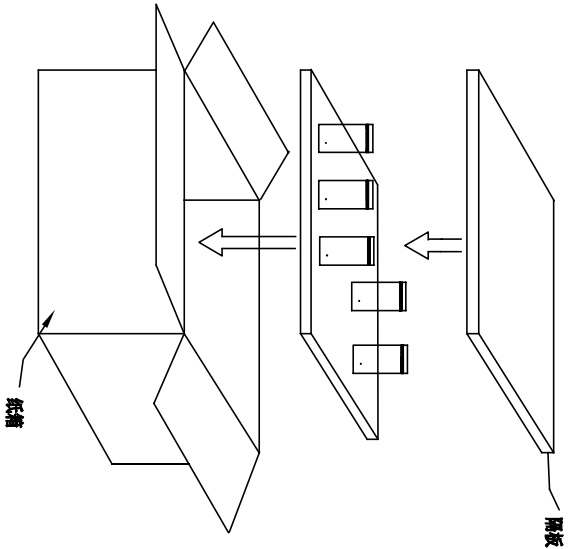
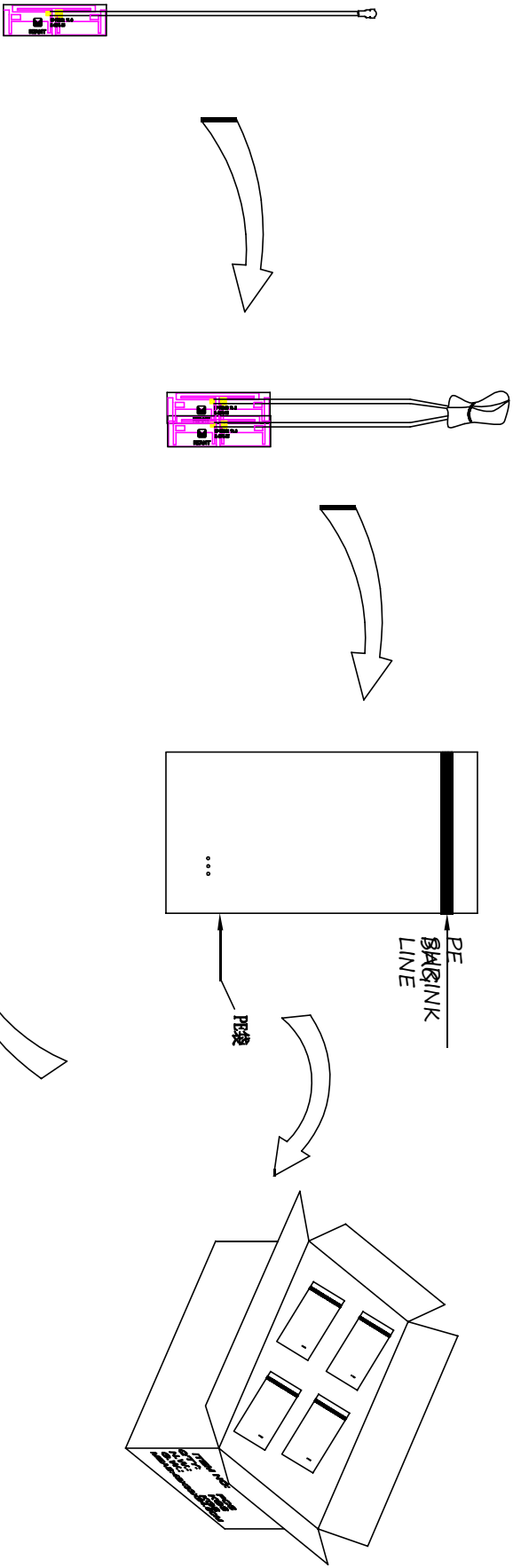


4	Q40-010076-A	背胶	3M	129.5+3 (手撕位3MM)*19.0	1
3	Q20-160030-A	IPEX	铜	镀金 IPEX 四代	1
2	W10-280002-A	线材	线材	黑色 50 Ω	1
1	Q70-010180-A	PCB	电铸铜	RT-PCB162 V0.0 2.4G/5.8G	1
No.	Part Number	Name	Material	Describe	Qty

NOTE:
1. 带*为重点管制尺寸;
2. 电源:
Frequency Range:
2.4-2.5GHz, 15-6.8GHz
Impedance: 50 Ω
VSWR: 2.0MAX (带机壳与IPEX)
3. 工作环境: -10°C ~ +65°C;
4. 环境要求: RoHS 2.0;
5. IPEX方向管制:
100mm $\pm$ 90度;
200mm $\pm$ 135度;
200mm以上不管制。

TITLE: 内置PCB板天线		FN-LINK TECHNOLOGY LIMITED 欧智通科技股份有限公司 http://www.fn-link.com Tel: +86-755-2955-8186	
P/N:		SHEET: 1/1	
CUSTOMER:		SCALE: NONE	
DRAW NO.:		CHECKED	
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED		APPROVED	
一般公差		DRAWN	
TOLERANCES		UNIT: mm	
		REV: 0	
		REV: 0	
		REV: 0	

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P/N:					
CUSTOMER:					
DRAW NO.:					
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED		 F.N-LINK TECHNOLOGY LIMITED 欧智通科技股份有限公司 http://www.fn-link.com Tel : +86-755-2955-8168			
		APPROVED			
SHEET: 1/1		SCALE: NONE		CHECKED	
UNIT: mm		REV: 0		DRAWN	
一般公差		XXX ±0.1		XXX ±0.5	
TOLERANCE		XXX ±0.5		XXX ±1.0	
		XXX ±1.0			