



Product Number:RT477-10001-A
Product Name: 内置FPC天线

Version: X0

SPECIFICATION FOR APPROVAL

CUSTOMER (客户名称)	深圳市亿芯微半导体有限公司								
CS P/N(客户机种)									
PART NAME (品名)	内置FPC天线(PCB17045 VER.A) 2.4 / 5.8G φ 1.13 灰色 L=100MM IPEX ROHS								
FREQUENCY (频率)	2.4-5.85GHz								
RTANT NO. (物料编号)	RT477-10001-A								
DATE (日期)	2024.09.12								
出样签章									
<table><tr><td>APPROVED BY 核准</td><td>CHECKED BY 确认</td><td>DRAWED BY 制作</td></tr><tr><td>刘云海</td><td>姜文祥</td><td>姜文祥</td></tr></table>				APPROVED BY 核准	CHECKED BY 确认	DRAWED BY 制作	刘云海	姜文祥	姜文祥
APPROVED BY 核准	CHECKED BY 确认	DRAWED BY 制作							
刘云海	姜文祥	姜文祥							
Remark (备注):									
客户承认签章									
<table><tr><td>APPROVED BY 核准</td><td>CHECKED BY 确认</td><td>TESTED BY 检测</td></tr><tr><td></td><td></td><td></td></tr></table>				APPROVED BY 核准	CHECKED BY 确认	TESTED BY 检测			
APPROVED BY 核准	CHECKED BY 确认	TESTED BY 检测							
Sign(客户确认签字盖章):									

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1. Contents项目表

No.	content内容	Pages页数
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附件	2D产品图、包装规范	附件

2. Revision history变更履历

Revision版本	Date日期	Change the content变更内容
X0	24. 09. 12	新版

3. 产品实物图片Product picture



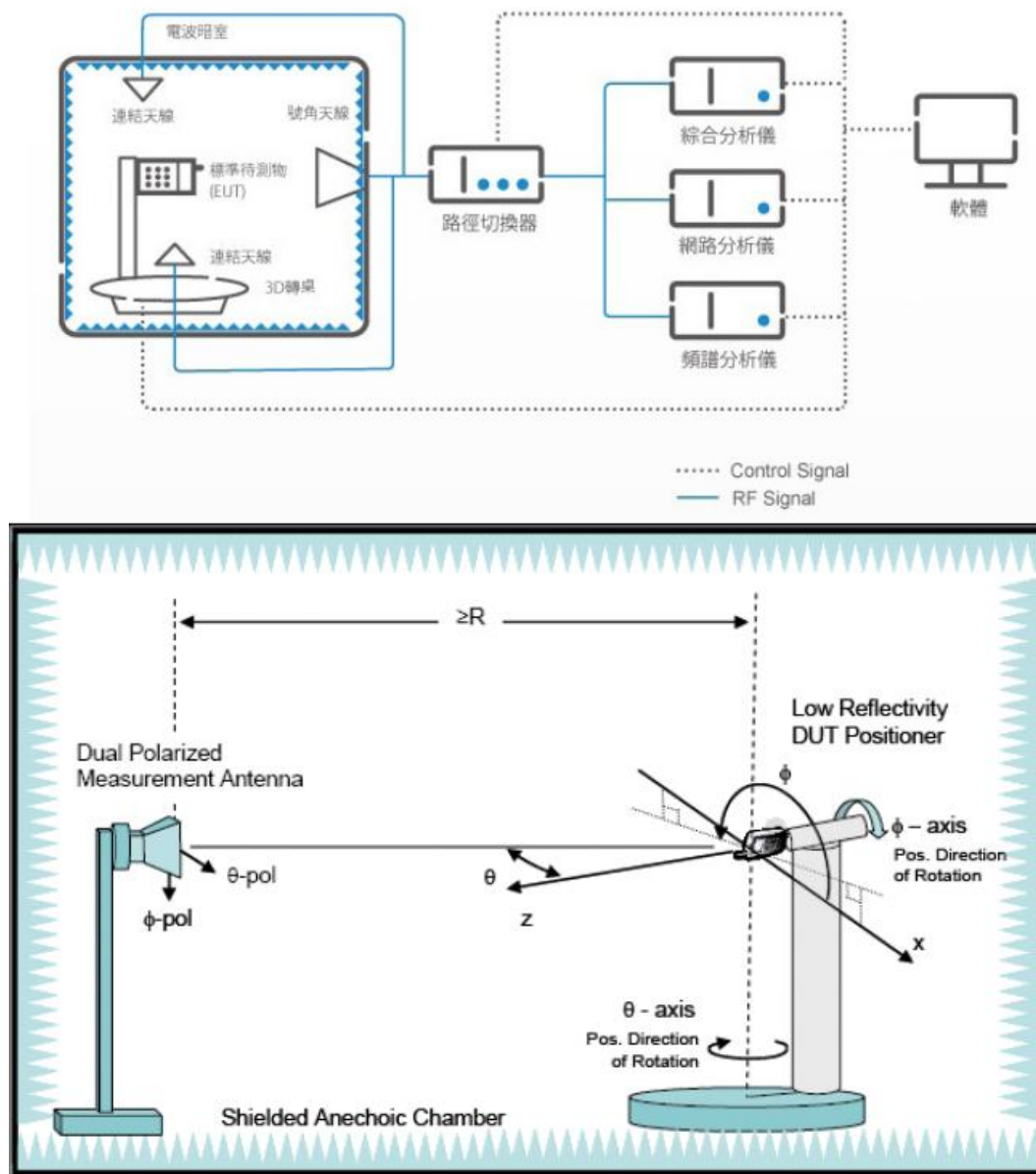
4. 规格表Specification

A. Electrical Properties	
Frequency Rang频段范围	2.4-5.85GHz
Impedance特性阻抗	50 Ω Nominal
VSWR电压驻波比	2.0Max. (带机壳)
Gain(peak)增益 (峰值)	3.50dBi
Efficiency效率	>50%
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	IPEX
Cable线材	Φ 1.13mm 灰色
Antenna Radiator天线振子体	FPC

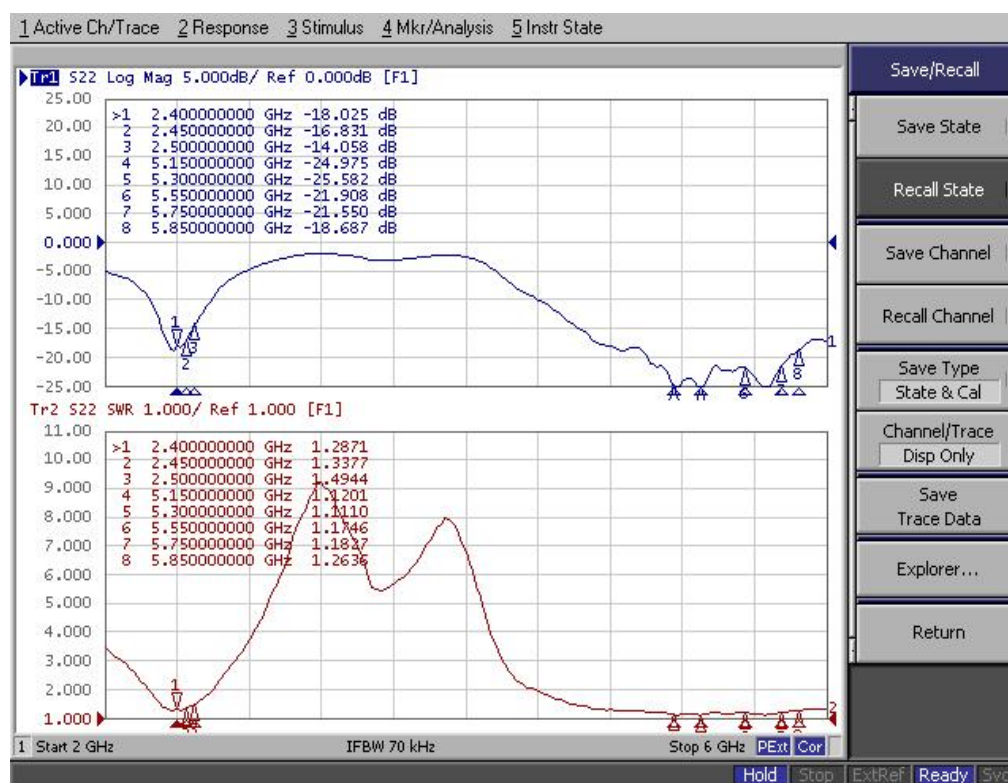
5. 电性测试报告Electrical Test Report

5.1 Test equipment

OTA 系統架構圖



5.2 Network analyzer test report

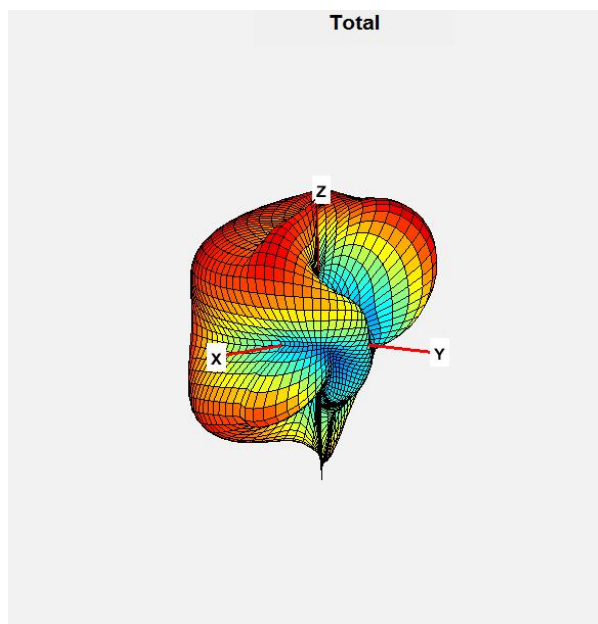


5.3 Passive test data

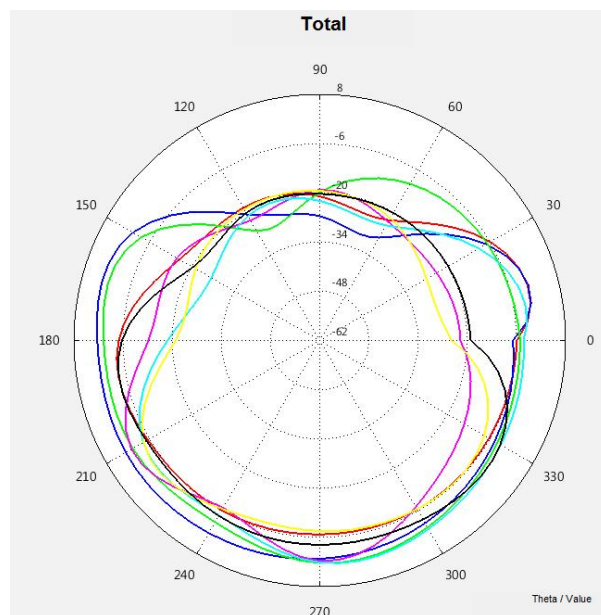
Frequency	2.40GHz	2.45GHz	2.50Hz	5.15GHz	5.5GHz	5.85GHz
Efficiency (%)	54.6	58.07	54.59	55.31	55.44	56.07
Gain (dBi)	1.40	1.78	1.34	2.59	2.67	3.5

5.4 2D/3D test diagram

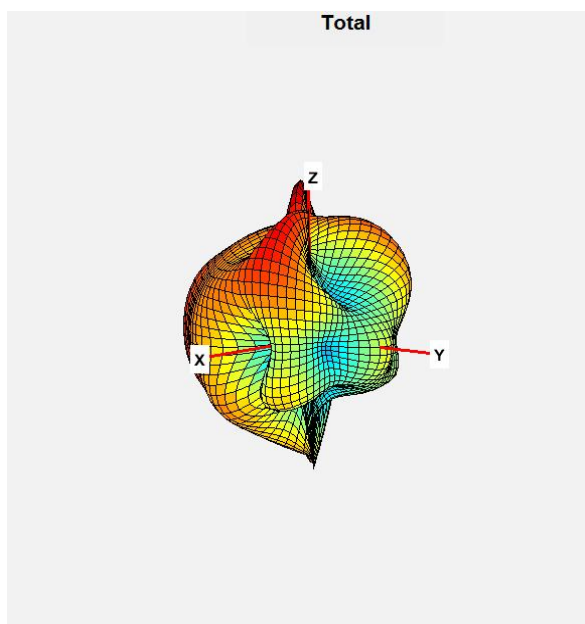
3D-2450MHz



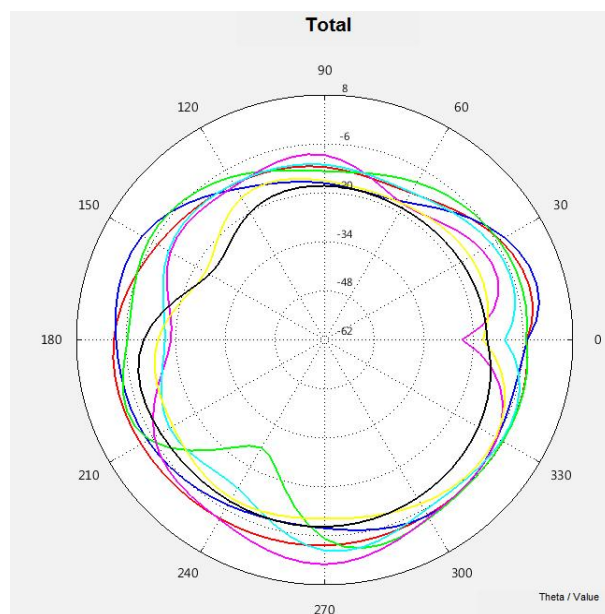
2D-2450MHz



3D-5500MHz



2D-5500MHz



6. 样品检验报告Sample inspection report

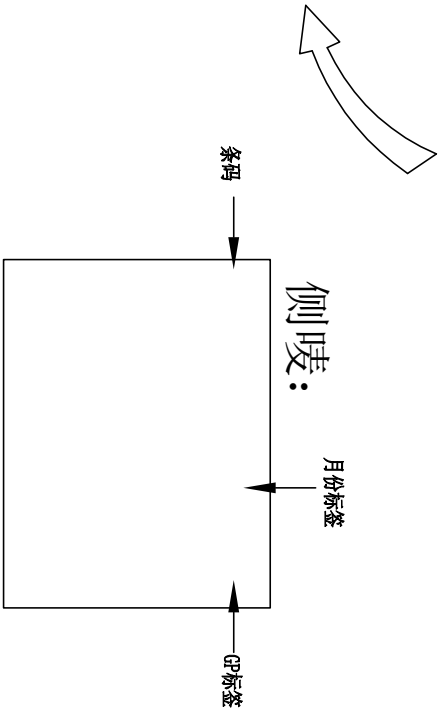
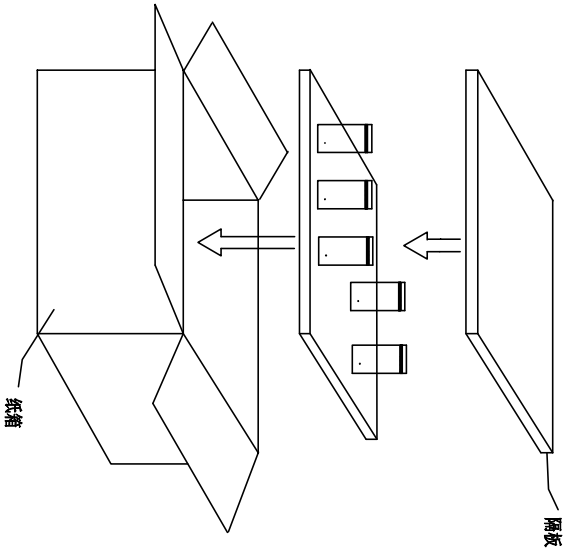
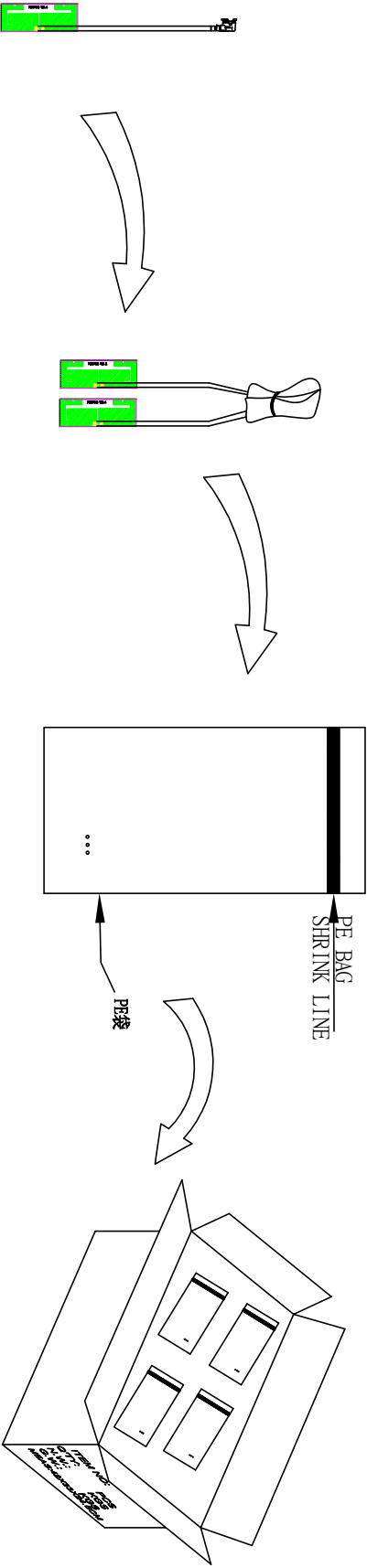
日期: 2024. 09. 12

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
	塑胶	对比无色差、无脏污、无破损，无刮伤						□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	100±3mm	100	100	100	100	100	■OK □NG
电气及功能测试	Frequency Rang	5.15-5.85GHz						
	VSWR	<2.0	pass	pass	pass	pass	pass	■OK □NG
机械性能	拉力	Cable与IPEX组装后拉力大于1.0kg	1.8	1.8	1.7	1.8	1.7	■OK □NG
备注								
最终判定		■ 合格 □ 不合格 □ 条件认可						

审核: 张超超

检验: 雷娟兰

SIGN	DATE	DESCRIPTION	APPROVER
A0	24.08.24	新版发行	姜文祥



TITLE:	5.8G 内置PC天线	 RTANT COMMUNICATIONS CO.,LTD 东莞市安特通信有限公司 Http://www.rtant.com Tel: 0769-85853856 Fax: 0769-85852573 E-mail: csg@rtant.com			
P/N:	Y12764				
CUSTOMER:	亿芯				
DRAW NO.:	RT477-10001-A				
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED		 SHEET: 1/1 SCALE: NONE UNIT: mm			
一般公差		XXX ±0.1	XX ±0.5	XX ±5	APPROVED
TOLERANCE		XX ±0.5	XX ±1.0		
		XX ±3.0			CHECKED
					DRAWN
					姜文祥 24.08.24