



# 承 认 书

## SPECIFICATION FOR APPROVAL

客户名称 Customer Name	志和兴		
客户项目名 Customer Project Name	EID-9000	顺达成项目名 SDC Project Name	EID-9000
客户编码 Customer P/N		顺达成料号 SDC P/N	WF029-A130R-A
频段 Band	WIFI2.4G/BT	天线丝印: SDC 029	
版本号 Version	A0		
设计人信息/Designer Information			
射频工程师 RF Engineer	伍文载	研发主管 R&D Director	夏承磊
结构工程师 ME Engineer	黄宗宝		

审批/ Approval			客户批准/Customer Approval		
	制作 Prepared By	审核 Checked By	批准 Approval By	审核 Checked By	批准 Approval By
签章 Signature	黄宗宝	夏承磊	陈华明		
日期 Date	2024.05.10	2024.05.10	2024.05.10		

修订履历/Change Log				
版本 Version	修订内容 Change Description	责任人 Person in Charge	核准 Approval By	日期 Date



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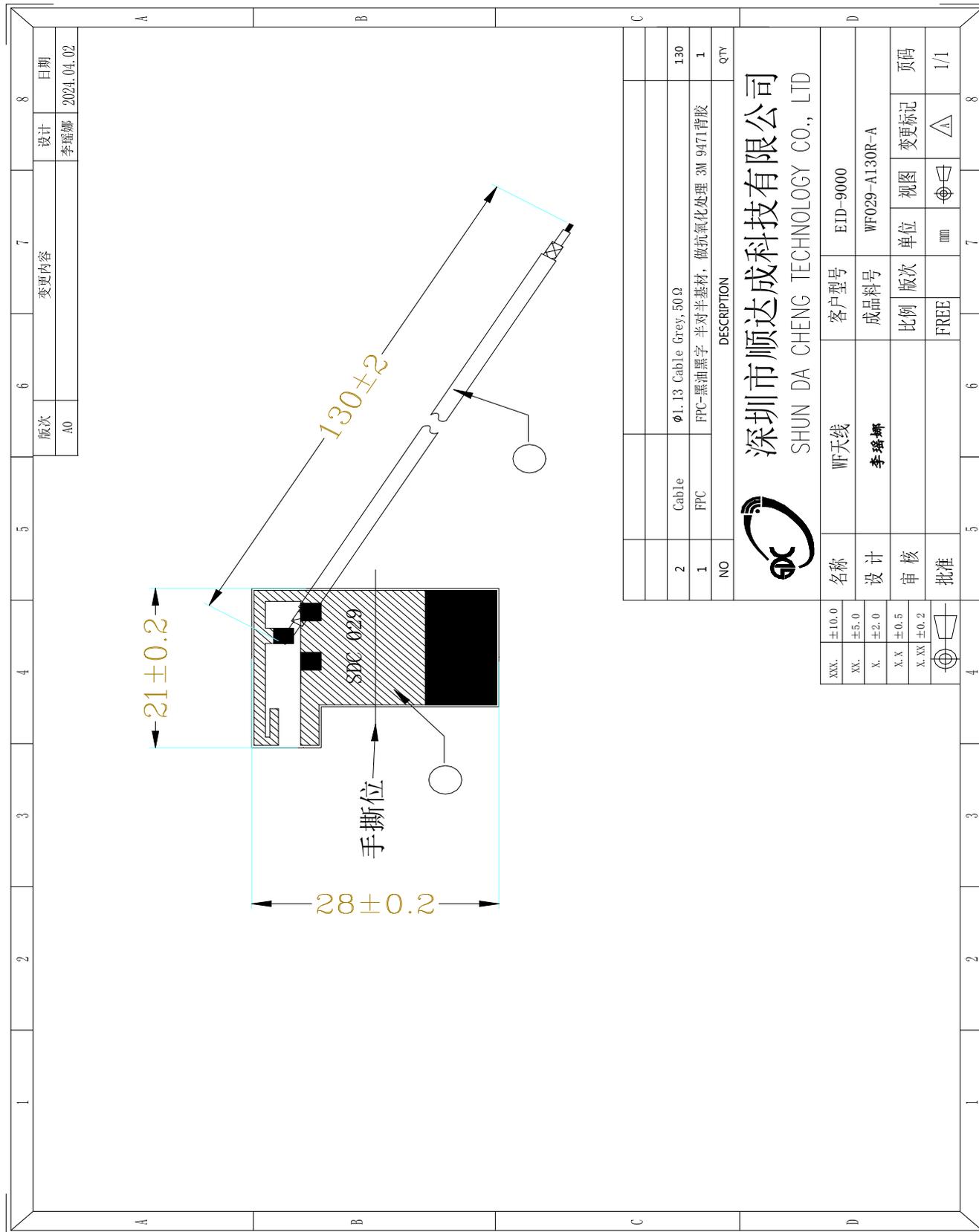


# 深圳市顺达成科技有限公司

SHUN DA CHENG TECHNOLOGY CO., LTD

产品图纸或实物图片

Drawing or Product Image





## 样品尺寸测量报告

### Sample Dimensions Test Report

测试日期 Test Date	2024. 05. 10	样品数量 Sample Qty.	3	测试人 Inspector	许燕芳
尺寸编号 Dimension No.	标准 Standard	样品 1 Sample 1	样品 2 Sample 2	样品 3 Sample 3	Pass/NG
①长度	21 ± 0. 2mm	21	21. 1	21	Pass
②宽度	28 ± 0. 2mm	28	28. 1	28	Pass
③厚度	0. 1 ± 0. 03mm	0. 1	0. 1	0. 1	Pass
④线长	130 ± 2mm	130	131	130	Pass
最终结论 Conclusion					PASS
测试人&日期 Inspector & Date	许燕芳 2024. 05. 10		批准&日期 Approval & Date		



# 射频性能测量报告

## RF Performance Test Report

### 天线测试设备简介

#### Antenna Test Equipment Introduction

测试天线输入特性使用 Agilent E5071C and Agilent 5062A 矢量网络分析仪；辐射特性利用广屏三维近场暗室进行测试，并分别使用 8960 E5515 和 Agilent E4438C 进行了分析。暗房的测试坐标如下：

Test of antenna input characteristics using Agilent E5071C and Agilent 5062A vector network analyzer; The radiation pattern of the antenna are tested using the guangping 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

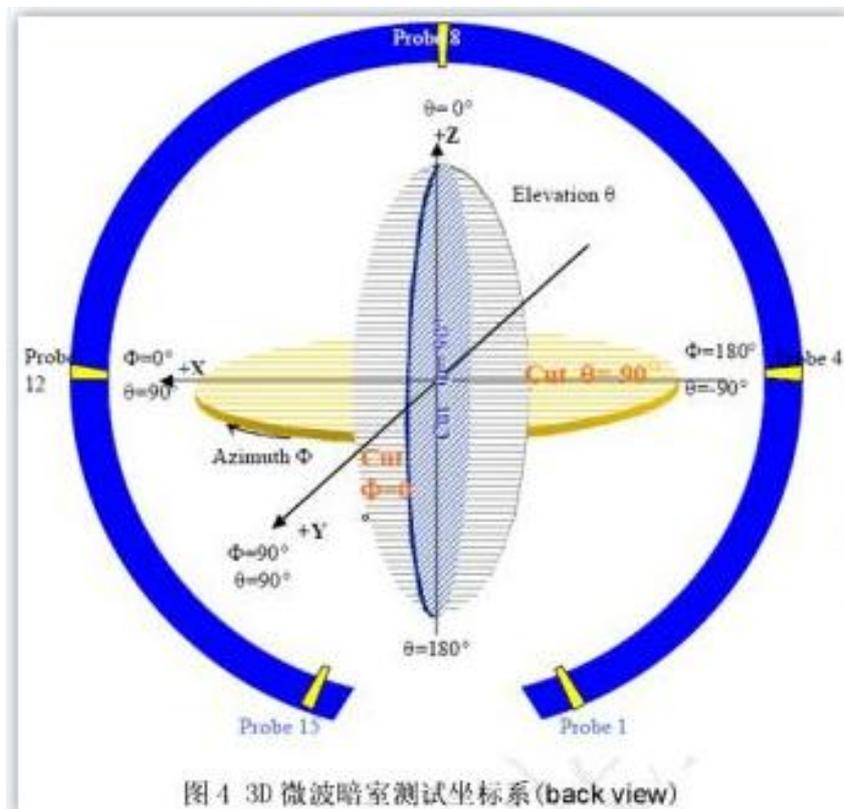


图4 3D 微波暗室测试坐标系 (back view)

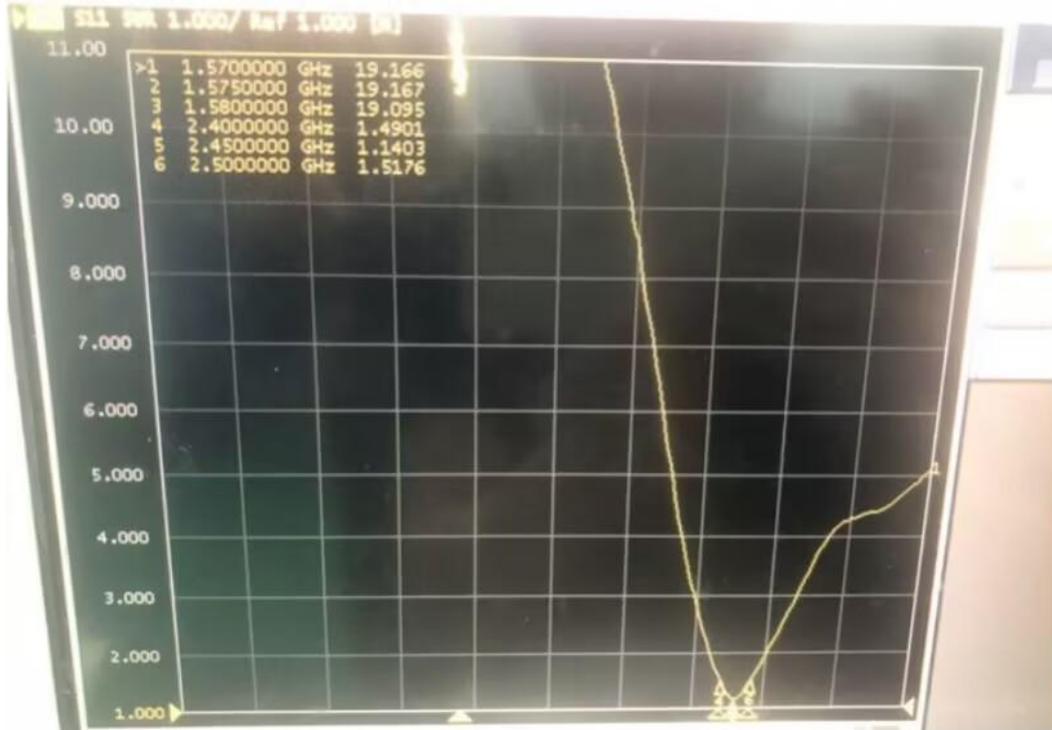
### 1. S11 参数测量/S11 Parameter-VSWR

使用一根 50Ω 同轴电缆连接到天线，然后该电缆连接到网络分析仪测量 S11 参数，被测量产品远离金属至少 20 厘米。

Measuring Method is a 50Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.



### S11 Parameter-VSWR



### 2. 天线匹配网络/Antenna Matching Network

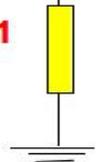
Antenna



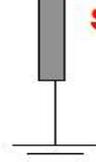
Series  
N/A

PA

Shunt 01  
N/A



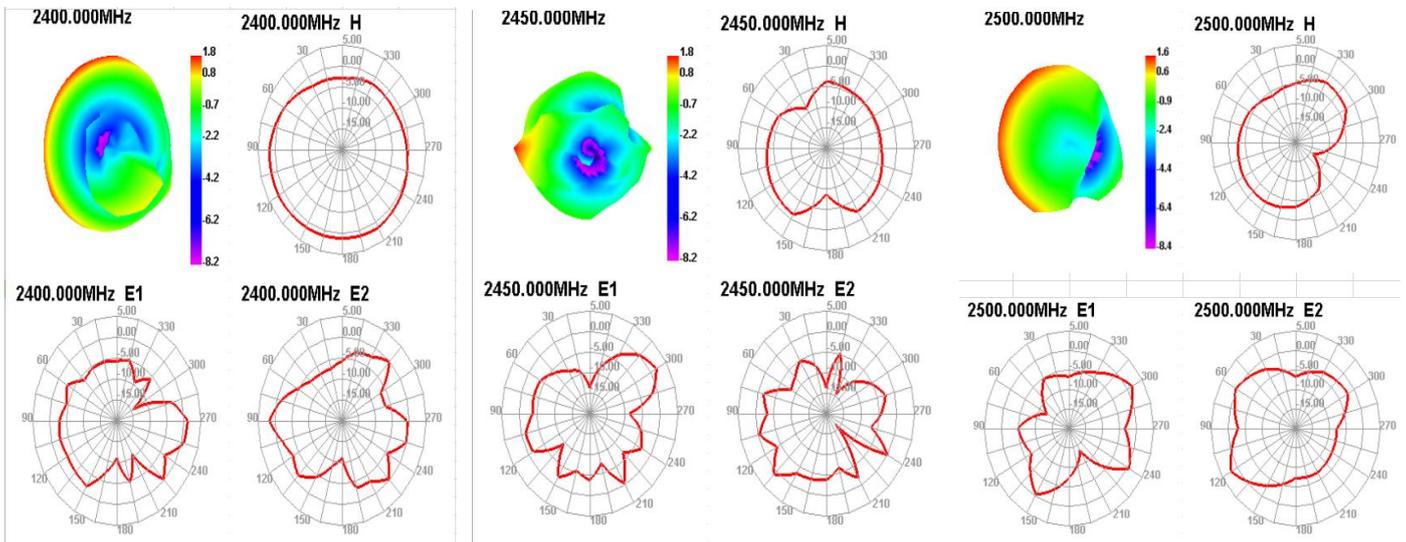
Shunt 02  
N/A



### 3. Gain & Efficiency



WiFi Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	44.39	1.79
2450	45.86	1.83
2500	43.54	1.62



#### 4. WIFI OTA Data

2.4G	802.11b, (2.4G) 11M		
Channel	CH1	CH6	CH11
TRP	14.36	14.59	14.41
TIS	-80.60	-80.46	-80.55



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## 可靠性测试报告

Reliability Test Report

测试日期 Test Date	2024. 05. 10	样品数量 Sample Qty.	3	测试人 Inspector	许燕芳	
测试项目 Test Item	要求 Requirement	试验设备 testing equipment	样品 1 Sample 1	样品 2 Sample 2	样品 3 Sample 3	判定 PASS/NG
高温存储	在+85°C条件下暴露 24H, 恢复 2H 后进行测 试	恒温恒湿箱	OK	OK	OK	Pass
低温存储	在-40°C条件下暴露 24H, 恢复 2H 后进行测 试	恒温恒湿箱	OK	OK	OK	Pass
高温工作	在+60°C条件下通电工 作 24H	恒温恒湿箱	OK	OK	OK	Pass
低温工作	在-20°C条件下通电工 作 24H	恒温恒湿箱	OK	OK	OK	Pass
盐雾试验	(5 ± 0. 5)%氯化钠、 pH 值为 6. 5~7. 2, 实验 箱温度 (35 ± 2) °C <input type="checkbox"/> 24H <input checked="" type="checkbox"/> 48H	盐雾试验机	OK	OK	OK	Pass
连接器铆压拉 拔力	1. 13 线径 ≥10N 0. 81 线径 ≥8N RG174 ≥60N RG178 ≥50N	推拉力计	≥10N	≥10N	≥10N	Pass
最终结论 Conclusion						Pass
测试人&日 期 Inspector & Date	许燕芳 2024. 05. 10		批准&日期 Approval &D ate			

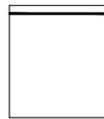


## 包装规范

项目名：EID-9000

成品名称：FPC天线

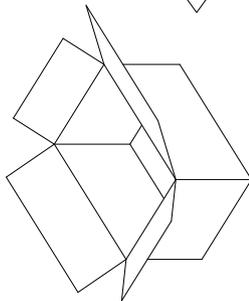
FPC成品天线 (一)



(二) 每PE袋装100pcs产品 (以实际包装为准)



(三) 再将装好的天线小包装袋整齐放入  
(图三) 装10小袋 (以实际包装为准)



(四) 包装好的天线放入纸箱，可装5大袋，  
每箱可装5000PCS (图四)。(以实际  
包装为准)



供应商	
采购单号	
物料编码	
规格型号	
数量	
日期	

(五) 包装完成后需贴上出货标签 (图五)。



安装事宜或其它

Install Wizard or Other

安装过程:

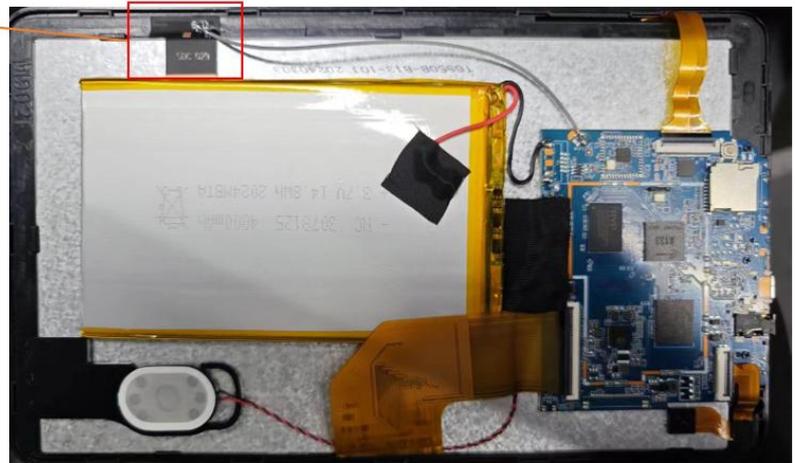
取 1PCS 产品, 用手撕下 FPC 背面的离型纸, 然后将 FPC 定位孔位置与外壳定位孔位置 (定位筋位或定位线) 对齐, 平整的贴附与外壳上, 具体位置如下图所示:

安装过程注意事项:

- 粘贴天线后保证 FPC 完整贴附于外壳;
- 定位孔与外壳定位柱位置对齐;
- FPC 边缘与外壳边缘对齐;
- 带端子天线在将端子扣合到主板 PCBA 端时请首先对齐端子, 然后垂直扣合;
- 拆卸天线端子时需使用工具 (如专用撬棍) 垂直翘起端子, 不可直接拽线拆卸。



WiFi天线





产品 ROHS 证书

*Certificate*

Certificate Number: UNIB23083106HC-01



Product: 5G/4G/WIFI/GPS/BT antenna  
 Applicant: ShenZhen ShunDaCheng Technology Co., Ltd.  
 4th Floor, Building B5, Xinfu Industrial Zone, Fuyong Chongqing Road,  
 Baoan District, Shenzhen  
 Manufacturer: N/A  
 Model No.: N/A  
 Trade Name: N/A  
 Test Methods: IEC 62321-2:2021, IEC 62321-3-1:2013, IEC 62321-4:2013 +A1:2017,  
 IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015  
 IEC 62321-7-2:2017, IEC 62321-8:2017

The laboratory tested the product provided by the applicant according to the above test methods. According to the test results, the product conforms to RoHS Directive [(2011/65/EU and Amendment (EU) 2015/863)] issued by the European Commission. It is possible to use CE marking to demonstrate the compliance with RoHS Directive.

The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole production. It is only valid in connection with the test report number: UNIB23083106HR-01.

**Note:** According to the requirements of the applicant for testing, details are shown in the test report.

**RoHS**

Sep. 06, 2023  
Issue Date

*Hoffer Lau*  
Hoffer Lau

**CE**

Shenzhen United Testing Technology Co., Ltd.

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Certificate of Compliance