

# 承 认 书 SPECIFICATION FOR APPROVAL

客户名称 Customer Name	芯赐						
客户项目名 Customer Project Name	HDV02	顺达成项目名 SDC Project Name	HDV02				
客户编码 Customer P/N	顺达成料号 SDC P/N WF3113B-0814L-125						
频段 Band	WIFI2. 4G/BT						
版本号 Version	A0						
设计人信息/Designer Information							
射频工程师 RF Engineer	杨永辉	研发主管 R&D Diretor	符学荣				
结构工程师 ME Engineer	李瑶娜						

审批/ Approval				客户批准/Cust	omer Approval
	制作 Prepared By	审核 Checked By	批准 Approval By	审核 Checked By	批准 Approval By
签章 Signature	李瑶娜	杨永辉	符学荣		
日期 Date	2023. 4. 25	2023. 4. 25	2023. 4. 25		

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



# 目录/Catalogue

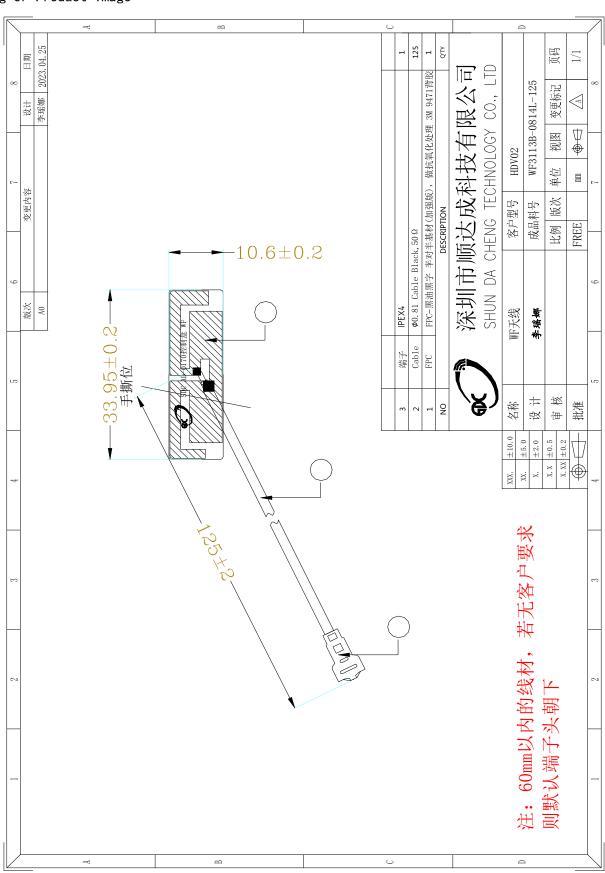
序号 No.	项目 Item	页码 Page No.
1	图纸或实物图片 Drawing or Product Image	3/5
2	尺寸测量报告 Dimensions Test Report	4/6
3	射频性能测试报告 RF Performance Test Report	7–10
4	可靠性测试报告 Reliability Test Report1	11
5	安装事宜或其它 Install Wizard or Other	12



#### SHUN DA CHENG TECHNOLOGY CO., LTD

产品图纸或实物图片

Drawing or Product Image



公司地址:深圳市宝安区福永镇重庆路新福工业园 B5 栋 4 楼



#### SHUN DA CHENG TECHNOLOGY CO., LTD

# 样品尺寸测量报告

Sample Dimensions Test Report

测试日期 Test Date	2023. 4. 25	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	33.95±0.2mm	33. 95	33. 95	34. 05	Pass
②宽度	10.6±0.2mm	10. 6	10. 7	10. 6	Pass
③厚度	0.1±0.03mm	0. 1	0. 1	0. 1	Pass
④线长	125±2mm	125	126	125	Pass
(5)					
6					
7					
	最终结论 Conclusion				
测试人&日期 Inspector & Date	许燕芳 2023.4.	25	批准&日期 Approval &D ate		



# 射频性能测量报告

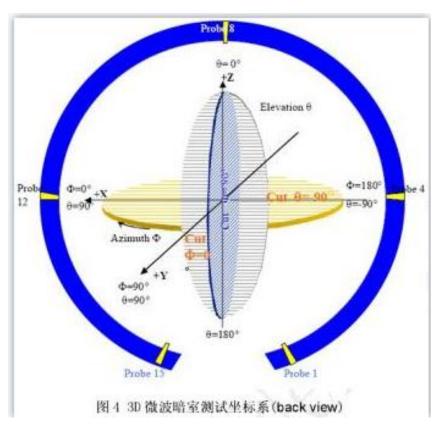
RF Performance Test Report

#### 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:



#### 1. S11 参数测量/S11 Parameter-VSWR

使用一根 50 Ω 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  $50\,\Omega$  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.

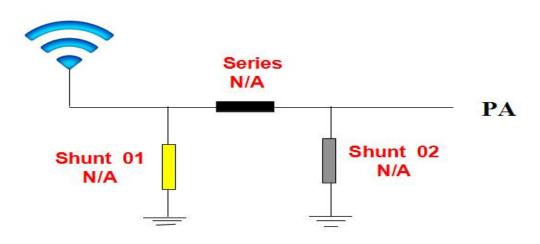


#### S11 Parameter-VSWR 1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State Tr1 S11 Smith (R+jX) Scale 1.000U [F1 M] Tr2 S11 Log Mag 10.00dB/ Ref 0.000dB [F1 M Tr3 S11 SWR 1.000/ Ref 1.000 [F1 M] 11.00 50.00 40.00 10.00 30.00 9.000 20.00 8.000 10.00 7.000 0.000 6.000 -10.00 5.000 -20.00 4.000 -30.00 3.000 -40.00 2.000 -50.00 1.000 1 Start 2 GHz IFBW 70 kHz Stop 6 GHz PExt C Meas Stop ExtRef R 频率 (MHZ) 2450 2400 2500 阻抗Ω 43, 14 54, 08 66, 45 频率 (MHZ) 2400 2450 2500 驻波比 1.16 1, 22 1.39 频率 (MHZ) 2400 2450 2500 -22.55-14.95回损 -18.88



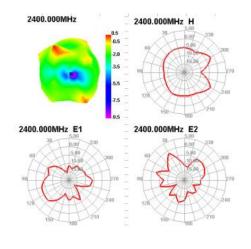
#### 2. 天线匹配网络/Antenna Matching Network

#### Antenna



#### 3. Gain & Efficiency

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	40. 83	0. 53
2450	41. 16	0. 68
2500	41. 29	0. 61





## 可靠性测试报告

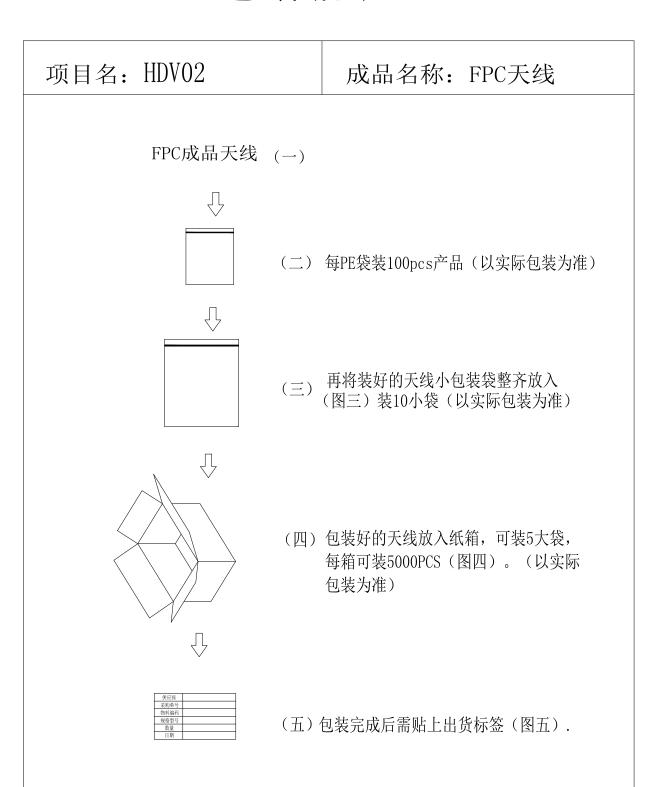
Reliability Test Report

	1	1	lity lest Re	i	T	
测试日期 Test Date 2023. 4. 25		样品数量 Sample Qty.	3	测试人 Inspector	许莉	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	ОК	ОК	ОК	Pass
低温存储	在-40℃条件下暴露 24H,恢复2H后进行测 试	恒温恒湿箱	ОК	ОК	ОК	Pass
高温工作	在+60°C条件下通电工 作 24H	恒温恒湿箱	ОК	ОК	ОК	Pass
低温工作	在-20℃条件下通电工 作 24H	恒温恒湿箱	ОК	ок	ОК	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)℃ □24H ☑48H	盐雾试验机	ОК	ок	ОК	Pass
连接器铆压拉拨力	1.13 线径 ≥10N 0.81 线径 ≥8N RG174 ≥60N RG178 ≥50N	推拉力计	≥8N	≥8N	≥8N	Pass
	最终结论 Conclusion					Pass
测试人&日 期 Inspector & Date	许燕芳 2023. 4. 25		批准&日期 Approval &D ate			



SHUN DA CHENG TECHNOLOGY CO., LTD

### 包装规范





SHUN DA CHENG TECHNOLOGY CO., LTD

#### 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 Number: UNIB22051904HC-01

Product: Fpc antenna

Applicant: ShenZhen ShunDaCheng Technology Co., Ltd.

4th Floor, Building B5, Xinfu Industrial Zone, Fuyong Chongqing Road,

Baoan District, Shenzhen

Manufacturer: ShenZhen ShunDaCheng Technology Co., Ltd.

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. UNIB22051904HR-01.

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

RoHS

May 27, 2022 Issue Date

Shenzhen United Testing Technology

Sbenzhen: 2/F., Annex Building, Jishuangyuan Tech Park, No.365, Baotian I Bao'anDistrict, Shenzhen, Guangdong, China/518050

Guangzhou: No. 47-3, Inclustrial Road, Zhushan, Dalong Street, Panyu District, Guangzhou, Canadong, China/511450

Tel;+86-755-86180996/+86-020-39277769 Fax:+86-0755-86180156

Web Site: www.uni-lab.hk/ E-mail:hofferlan@uni-lab.hk

ertificate of Compliance