



深圳市顺达成科技有限公司
SHUN DA CHENG TECHNOLOGY CO., LTD

承 认 书
SPECIFICATION FOR APPROVAL

客户名称 Customer Name	深圳吉祥星科技股份有限公司 Shenzhen Luckystar Technology Co. , Ltd.		
客户项目名 Customer Project Name	T65-T	顺达成项目名 SDC Project Name	T65-T
客户编码 Customer P/N		顺达成料号 SDC P/N	WG6366B-0814R-140
频段 Band	WiFi2. 4G/5G/GPS/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/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	李瑶娜	符学荣	陈华明	邓旭凤	肖有根
日期 Date	2025. 05. 13	2025. 05. 13	2025. 05. 13	2025. 05. 14	2025. 05. 15

Manufacturer: SHUN DA CHENG TECHNOLOGY CO., LTD

Address: 4th Floor, Building B5, Xinfu Industrial Park, Chongqing Road, Fuyong Town, Baoan District, Shenzhen

Company Address: 4th Floor, Building B5, Xinfu Industrial Park, Chongqing Road, Fuyong Town, Baoan District,
Shenzhen Telephone :0755-27211658 Fax :0755-29485750



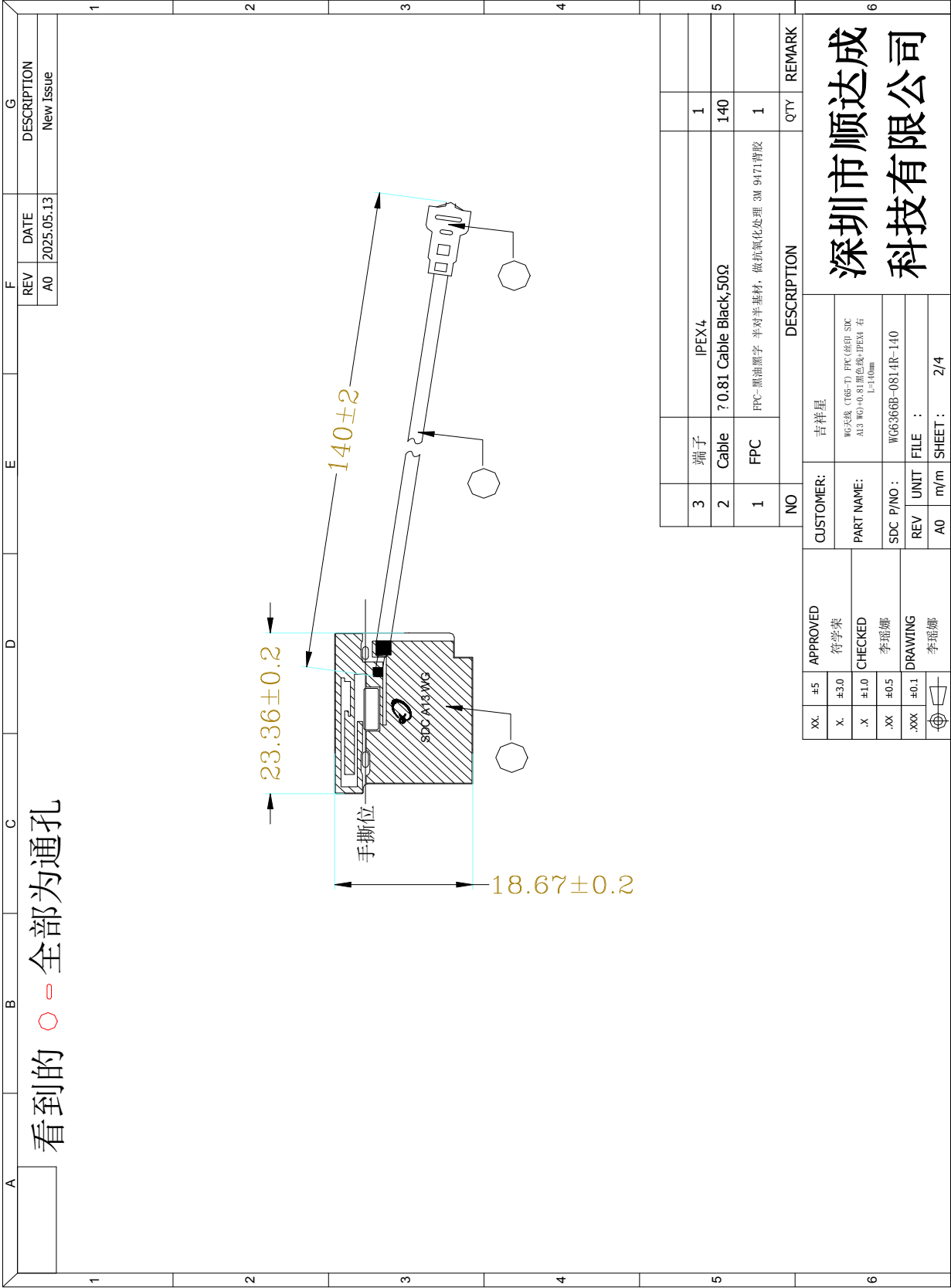
目录/Catalogue

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	7-9
4	可靠性测试报告 Reliability Test Report1	10
5	包装文件 Package Document	11
6	环境有害物质管控一览表 RoHS Control list for Sample	12
7	安装事宜或其它 Install Wizard or Other	12



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	2025. 05. 13	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	23. 36±0. 2mm	23. 4	23. 4	23. 5	Pass
②宽度	18. 67±0. 2mm	18. 7	18. 75	18. 7	Pass
③厚度	0. 1±0. 03mm	0. 1	0. 1	0. 1	Pass
④线长	140±2mm	140	140	141	Pass
最终结论 Conclusion					PASS
测试人&日期 Inspector & Date	许燕芳 2025. 05. 13		批准&日期 Approval & Date		



射频性能测量报告

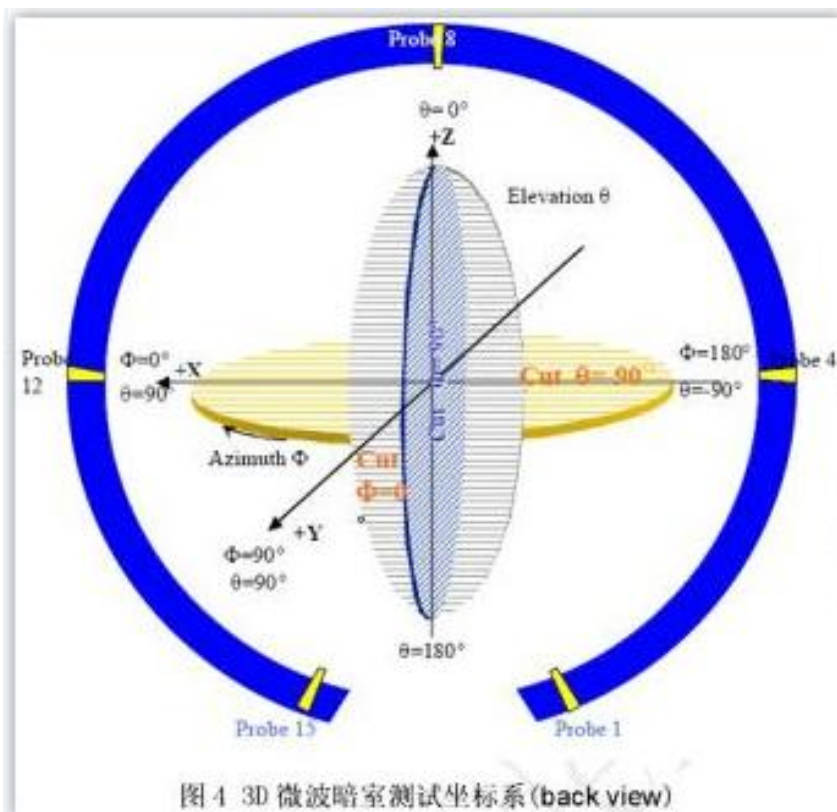
RF Performance Test Report

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:

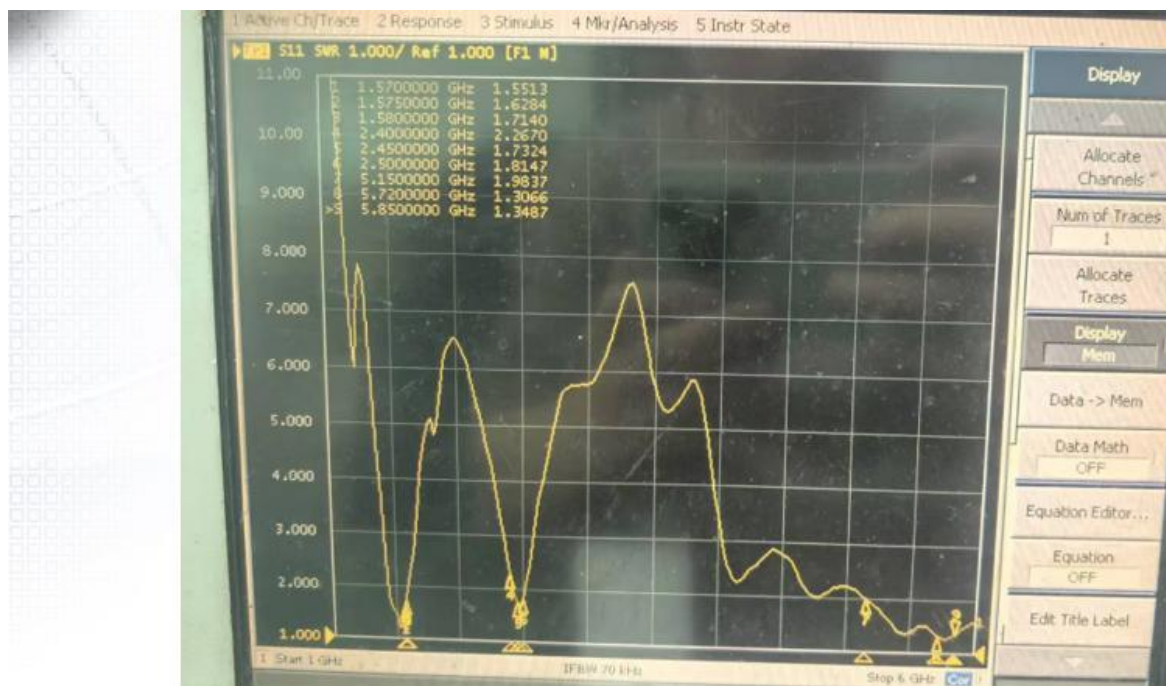


1. S11 参数测量/**S11 Parameter-VSWR**

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。

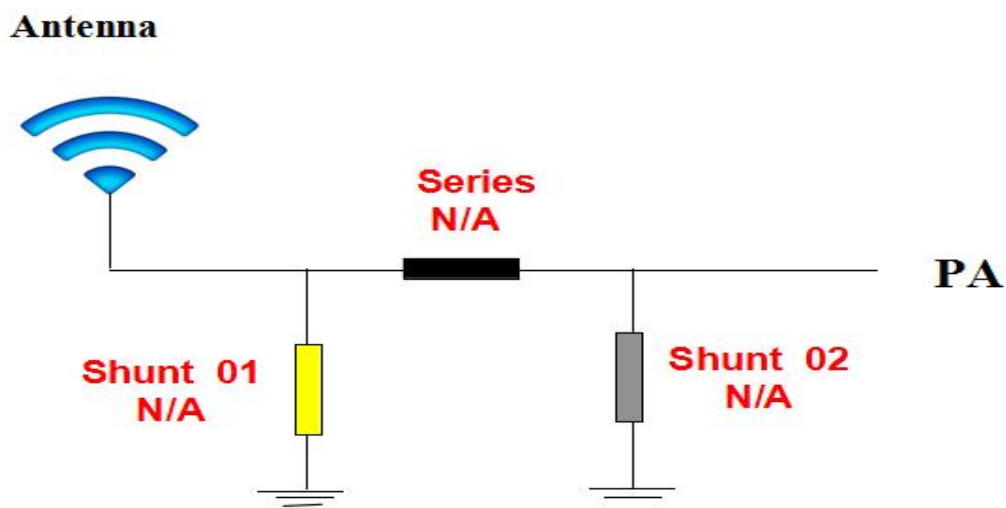
Measuring Method is a 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.

S11 Parameter-VSWR



Frequency (MHz)	1570	1575	1580	2400	2450	2500	5150	5720	5850
VSWR	1.54	1.53	1.57	2.12	1.10	1.98	1.52	1.36	1.59

2. 天线匹配网络/Antenna Matching Network





深圳市顺达成科技有限公司

SHUN DA CHENG TECHNOLOGY CO., LTD

3. Gain & Efficiency

Passive Test For GPS										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwid (3dB)
1561	43.91	-3.57	2.24	0.09	22.779	21.134	2.24	-15.45	5.82	
1562	43.35	-3.63	2.19	0.04	22.468	20.883	2.19	-15.45	5.82	
1563	42.92	-3.67	2.15	0	22.222	20.701	2.15	-15.44	5.82	
1564	42.9	-3.68	2.15	0	22.189	20.712	2.15	-15.27	5.83	
1565	43.55	-3.61	2.19	0.04	22.489	21.062	2.19	-15.14	5.8	
1566	43.1	-3.65	2.15	0	22.245	20.86	2.15	-15.1	5.81	
1567	43.22	-3.64	2.15	0	22.298	20.922	2.15	-14.95	5.8	
1568	43.49	-3.62	2.17	0.02	22.421	21.064	2.17	-14.85	5.79	
1569	43.54	-3.61	2.17	0.02	22.448	21.091	2.17	-14.74	5.79	
1570	42.95	-3.67	2.12	-0.03	22.137	20.818	2.12	-14.67	5.79	
1571	43.21	-3.64	2.14	-0.01	22.254	20.953	2.14	-14.5	5.79	
1572	42.72	-3.69	2.12	-0.03	21.997	20.725	2.12	-14.39	5.81	
1573	41.8	-3.79	2.03	-0.12	21.515	20.285	2.03	-14.4	5.82	
1574	40.99	-3.87	1.97	-0.18	21.078	19.908	1.97	-14.33	5.85	
1575	40.51	-3.92	1.94	-0.21	20.808	19.704	1.94	-14.23	5.86	

Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	43.31	-3.63	1.71	-0.44	16.742	26.569	1.71	-15.03	5.34	30	48.26	48.31
2425	43.2	-3.64	2.12	-0.03	17.006	26.198	2.12	-17.12	5.77	30	48.35	48.41
2450	50.59	-2.96	3.26	1.11	20.674	29.918	3.26	-14.9	6.22	30	48.98	48.94
2475	48.61	-3.13	3.45	1.3	20.543	28.07	3.45	-18.2	6.59	30	48.91	48.71
2500	54.77	-2.61	3.37	1.22	23.931	30.844	3.37	-12.56	5.98	0	49.08	48.77

Passive Test For 5.8G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	53.28	-2.73	3.1	0.95	22.352	30.925	3.1	-14.59	5.84	0	60.2	59.61
5250	54.38	-2.65	3.98	1.83	21.831	32.55	3.98	-12.92	6.63	30	60.81	60.02
5350	52.65	-2.79	2.4	0.25	24.462	28.186	2.4	-9.67	5.18	0	59.92	59
5450	44.02	-3.56	-0.08	-2.23	22.097	21.919	-0.08	-12.79	3.48	90	59.7	58.4
5550	47.22	-3.26	0.71	-1.44	25.304	21.916	0.71	-11.94	3.97	30	60.49	59.1
5650	44.69	-3.5	0.67	-1.48	23.22	21.469	0.67	-16.71	4.17	60	60.28	59.38
5750	48.26	-3.16	1.09	-1.06	21.293	26.966	1.09	-11.58	4.25	60	60.87	60.27
5850	34.95	-4.56	0.91	-1.24	15.047	19.908	0.91	-14.64	5.48	0	60.94	60.26

4. WIFI OTA Data



深圳市顺达成科技有限公司

SHUN DA CHENG TECHNOLOGY CO., LTD

2.4G	802.11b, (2.4G) 11M		
Channel	CH1	CH6	CH11
TRP	12.37	12.65	12.11
TIS	-80.62	-79.84	-79.3
5.8G	802.11a, (5.8G) 54M		
Channel	CH36	CH60	CH161
TRP	10.31	10.46	10.28
TIS	-70.7	-70.59	-70.36

5. GPS





深圳市顺达成科技有限公司
SHUN DA CHENG TECHNOLOGY CO., LTD

Reliability Test Report

Test Date	2024. 12. 05	Sample Qty.	3	Inspector	Xu Yanfang	
Test Item	Requirement	testing equipment	Sample 1	Sample 2	Sample 3	PASS/NG
High temperature storage	The test was carried out after 24H exposure at +85℃ and 2H recovery	Constant temperature and humidity box	OK	OK	OK	Pass
Low temperature storage	The test was carried out after 24H exposure at -40℃ and 2H recovery	Constant temperature and humidity box	OK	OK	OK	Pass
High temperature work	At +60℃ for 24H	Constant temperature and humidity box	OK	OK	OK	Pass
Work in low temperature	At -20℃ under the condition of power work for 24H	Constant temperature and humidity box	OK	OK	OK	Pass
Salt spray test	The pH value was 6.5 ~ 7.2, and the temperature of the experimental chamber was (35±2)℃ ☐ 24H ☒ 48H	Salt spray testing machine	OK	OK	OK	Pass
Connector riveting and drawing force	1. 13Wire diameter ≥ 10N 0. 81Wire diameter ≥ 8N RG174 ≥60N RG178 ≥50N	Push pull meter	≥10N	≥10N	≥10N	Pass
Conclusion						Pass
Inspector & Date	Xu Yanfang 2024. 12. 05		Approval & Date			

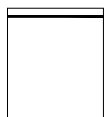


Packing rules

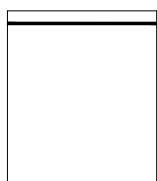
Project name: P30Tcase(P5B2)

Product name: FPC antenna

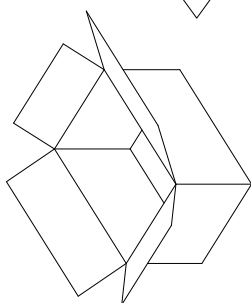
FPC antenna (one)



(two) Each PE bag contains 100pcs of products (subject to actual packaging)



(three) Then put the small antenna bag neatly into (Figure 3) and fill 10 small bags (the actual packaging shall prevail).



(four) The packaged antenna can be put into a carton, which can hold 5 large bags, each box can hold 5000PCS (Figure 4). (Subject to actual packaging)



supplier	
purchase order number	
material code	
specifications and models	
quantity	
date	

(five) After the packaging is completed, the shipping label should be affixed (Figure 5).



深圳市顺达成科技有限公司

SHUN DA CHENG TECHNOLOGY CO., LTD

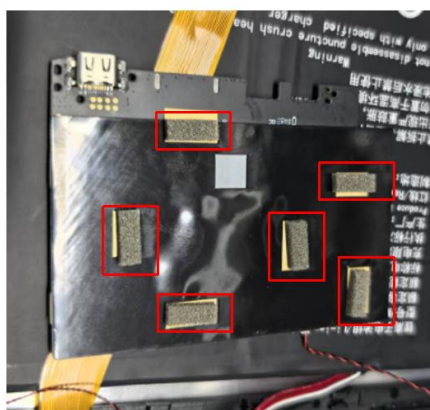
Install Wizard or Other

Installation process:

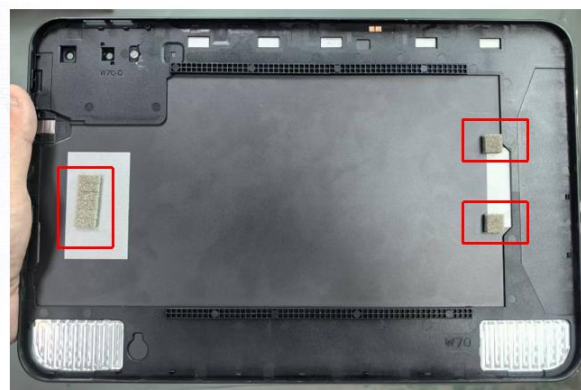
Take 1PCS of products and tear off the release paper on the back of the FPC by hand. Then align the positioning holes of the FPC with the positioning holes of the shell (positioning bars or positioning wires) and attach them to the shell smoothly. The specific positions are shown in the figure below:

Precautions for installation:

- ☐ After attaching the antenna, ensure that the FPC is fully attached to the shell;
- ☐ The positioning hole is aligned with the position of the housing positioning column;
- ☐ FPC edges are aligned with housing edges;
- ☐ When connecting the antenna with terminal to the PCBA end of the motherboard, align the terminal first and then close it vertically.
- ☐ When removing the antenna terminal, use a tool (such as a dedicated crowbar) to lift the terminal vertically. Do not pull the cable to remove the terminal directly



主板下方漏铜区域需要用导电海绵做接地处理。



金属后壳镭雕处需要用导电海绵做接地处理。



需要用导电海绵对金属后壳镭雕处做接地处理，主板端需要用导电布做接地处理。



天线安装位置请参考右图

WIFI&GPS天线

4G分集天线



天线安装位置请参考右图

4G主天线



深圳市顺达成科技有限公司
SHUN DA CHENG TECHNOLOGY CO., LTD

ROHS

Certificate

Certificate Number: UNIB24083009HC-01



Product: 5G/4G/WIFI/GPS/BT antenna/M808 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.
4th Floor, Building B5, Xinfu Industrial Zone, Fuyong Chongqing Road,
Baoan District, Shenzhen
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: UNIB24083009HR-01.

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

RoHS

Sep. 06, 2024
Issue Date

Hoffer Lau



Shenzhen United Testing Technology Co., Ltd.

Shenzhen: D101&D401, No. 107, Kaicheng High-Tech Park, Taoyuan Community, Dalang Sub-District,
Longhua District, Shenzhen, Guangdong, China/518109

Guangzhou: No.47-3, Industrial Road, Zhushan, Dalong Street, Panyu District, Guangzhou, Guangdong,
China/511450;

101/F, Building 2, Tongxin Industrial Park, Xinqiao Village, Dalong Street, Panyu District, Guangzhou,
Guangdong, China/511450

Tel: +86-755-86180996/+86-020-39277769

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



Certificate of Compliance