



SHUN DA CHENG TECHNOLOGY CO., LTD

SPECIFICATION FOR APPROVAL

Customer Name	Zhuoxun		
Customer Project Name	V09	SDC Project Name	V09
Customer P/N		SDC P/N	WF5876B-1131L-110(mike) WF5876B-1131L-90(WF) WF5876B-1131L-60(BT)
Band	WIFI2. 4G/5. 8G/BT		
Version	A0		
Designer Information			
RF Engineer	Fu Xuerong	R&D Diretor	Xu Tongbin
ME Engineer	Huang Zongbao		

Approval				Customer Approval	
	Prepared By	Checked By	Approval By	Checked By	Approval By
Signature	Huang Zongbao	Fu Xuerong	Xu Tongbin		
Date	2026. 9. 28	2026. 9. 28	2026. 9. 28		

Change Log				
Version	Change Description	Person in Charge	Approval By	Date



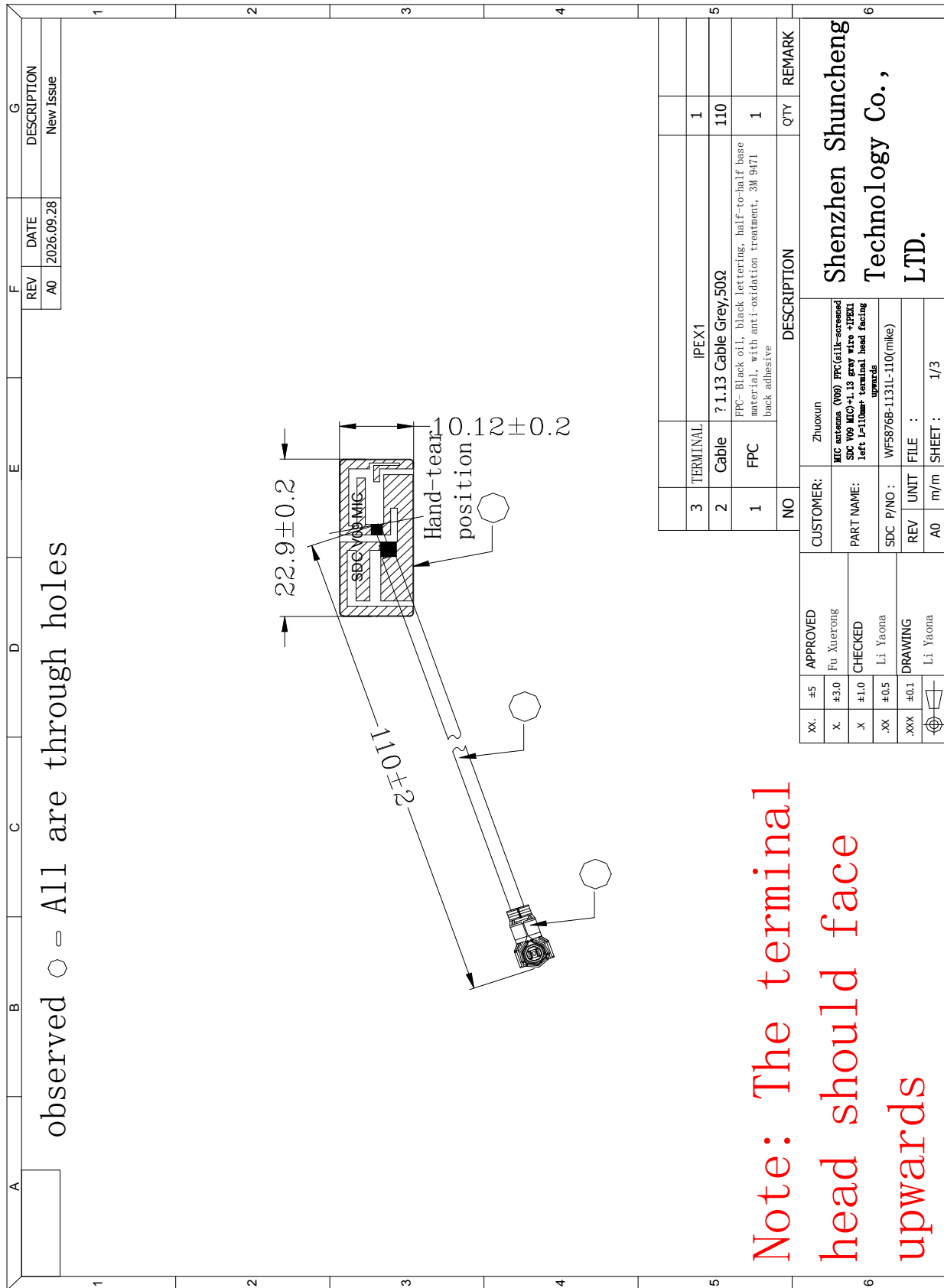
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Drawing or Product Image





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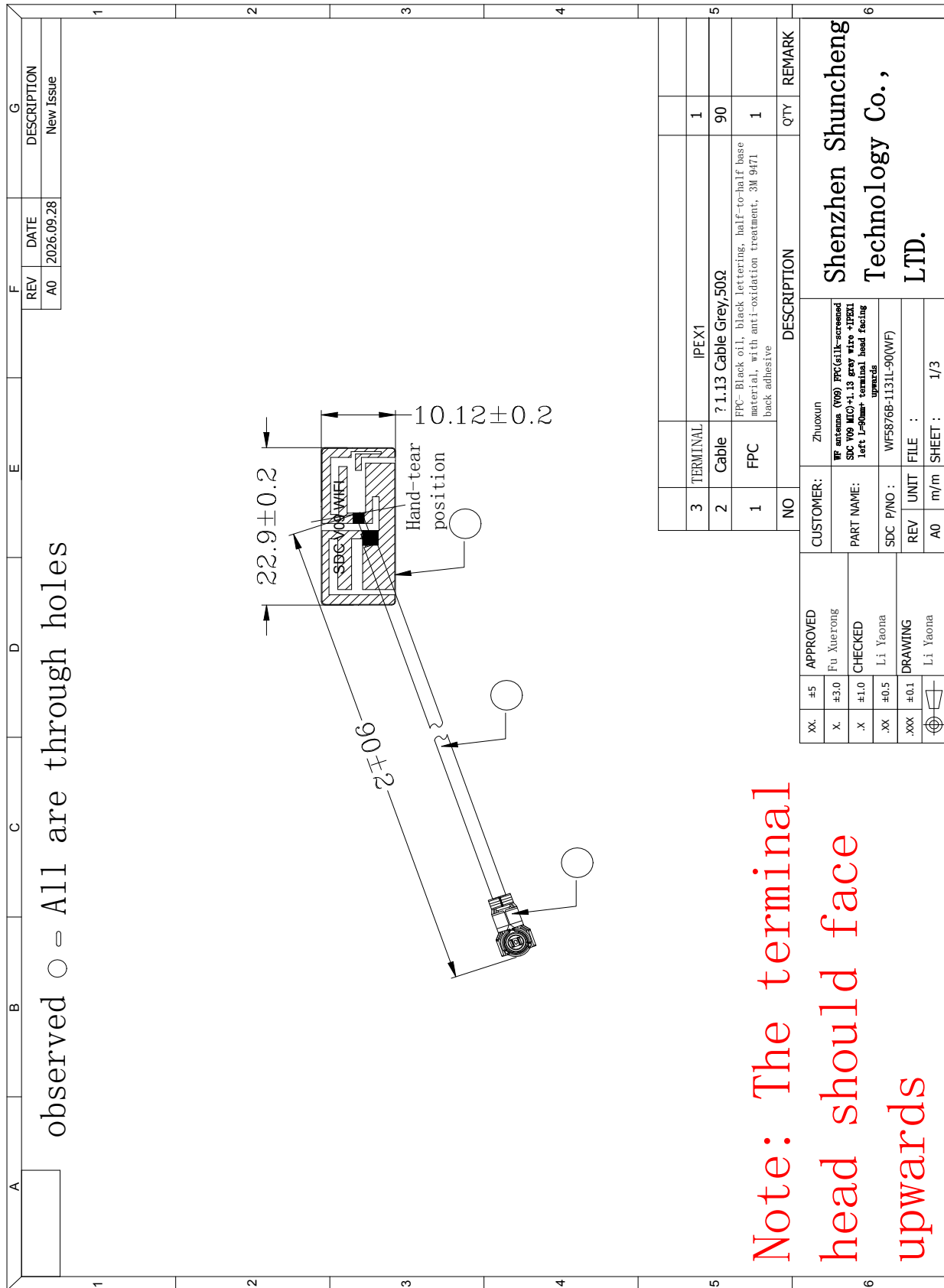
Sample Dimensions Test Report

Test Date	2026. 9. 28	Sample Qty.	3	Inspector	Xu Yanfang
Dimension No.	Standard	Sample 1	Sample 2	Sample 3	Pass/NG
①length	22. 9±0. 2mm	22. 9	23	23	Pass
②width	10. 12±0. 2mm	10. 15	10. 2	10. 2	Pass
③thickness	0. 1±0. 03mm	0. 1	0. 1	0. 1	Pass
④Line length	110±2mm	110	111	111	Pass
Conclusion					PASS
Inspector & Date	Xu Yanfang 2026. 9. 28		Approval & Date		



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Drawing or Product Image





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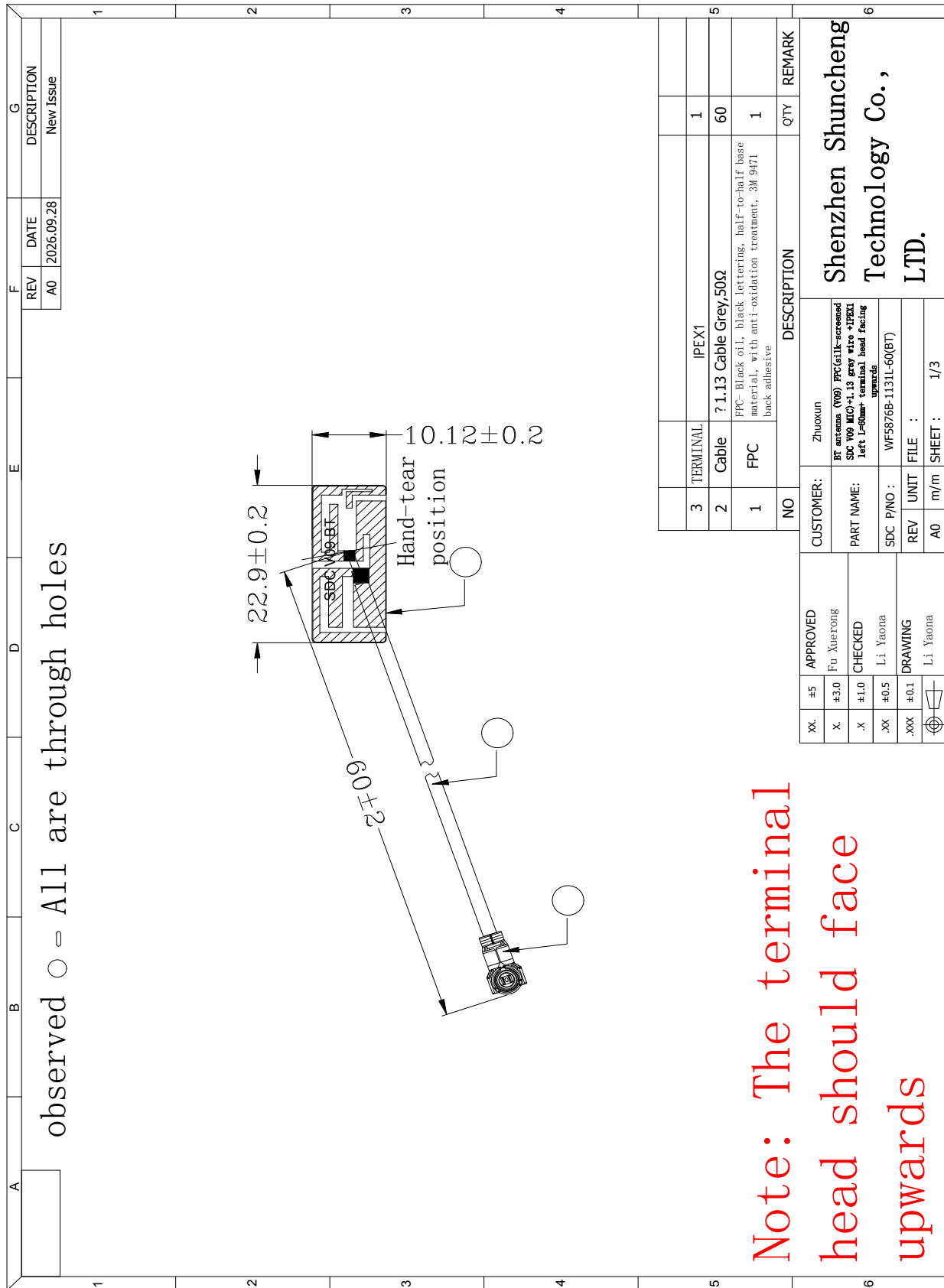
Sample Dimensions Test Report

Test Date	2026. 9. 28	Sample Qty.	3	Inspector	Xu Yanfang
Dimension No.	Standard	Sample 1	Sample 2	Sample 3	Pass/NG
①length	22. 9±0. 2mm	22. 9	23	23	Pass
②width	10. 12±0. 2mm	10. 15	10. 2	10. 2	Pass
③thickness	0. 1±0. 03mm	0. 1	0. 1	0. 1	Pass
④Line length	90±2mm	90	91	91	Pass
Conclusion					PASS
Inspector & Date	Xu Yanfang 2026. 9. 28		Approval & Date		



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Drawing or Product Image





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Sample Dimensions Test Report

Test Date	2026. 9. 28	Sample Qty.	3	Inspector	Xu Yanfang
Dimension No.	Standard	Sample 1	Sample 2	Sample 3	Pass/NG
①length	22. 9±0. 2mm	22. 9	23	23	Pass
②width	10. 12±0. 2mm	10. 15	10. 2	10. 2	Pass
③thickness	0. 1±0. 03mm	0. 1	0. 1	0. 1	Pass
④Line length	60±2mm	60	61	61	Pass
Conclusion					PASS
Inspector & Date	Xu Yanfang 2026. 9. 28		Approval & Date		

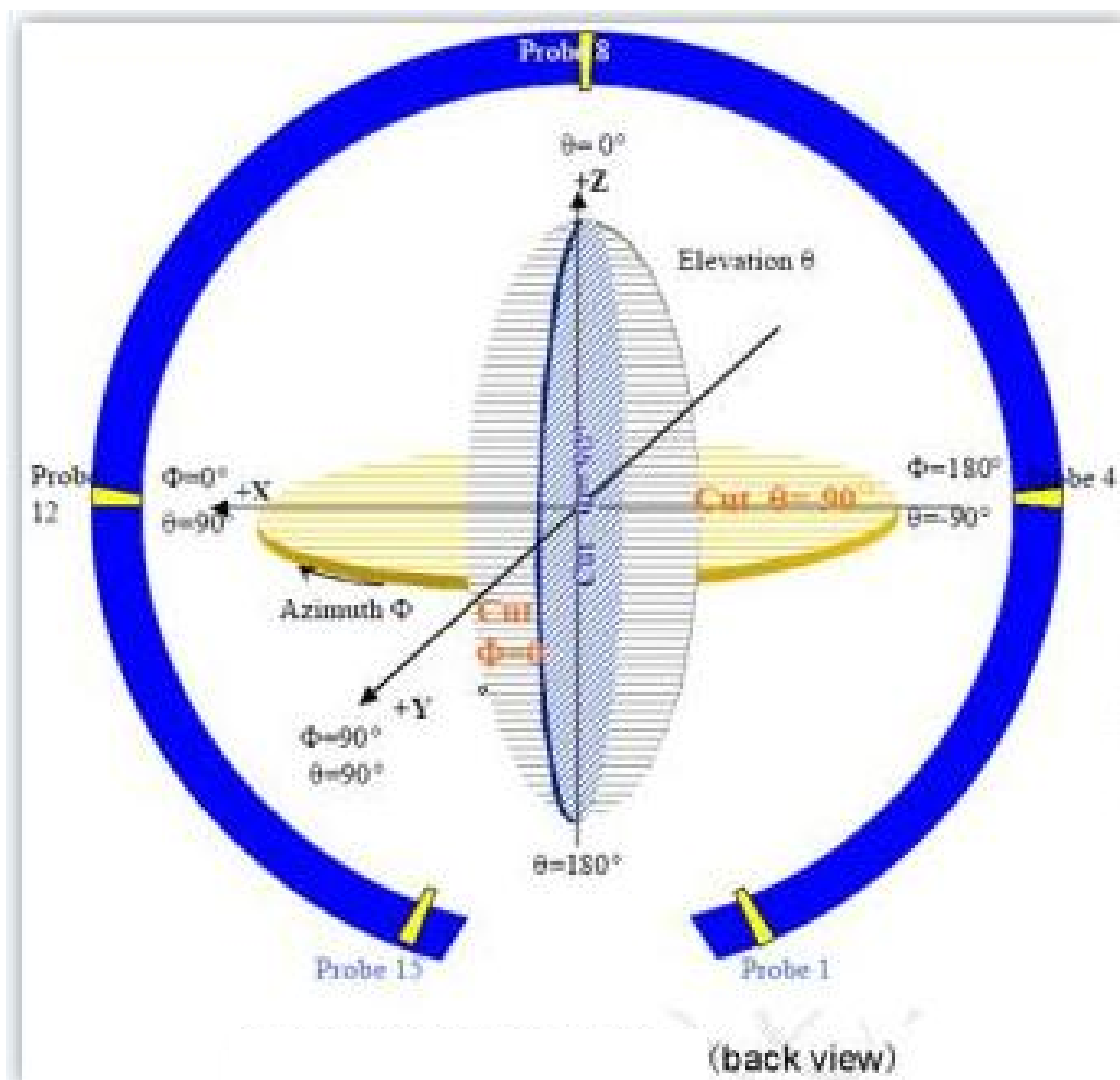


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RF Performance Test Report

Antenna Test Equipment Introduction

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:



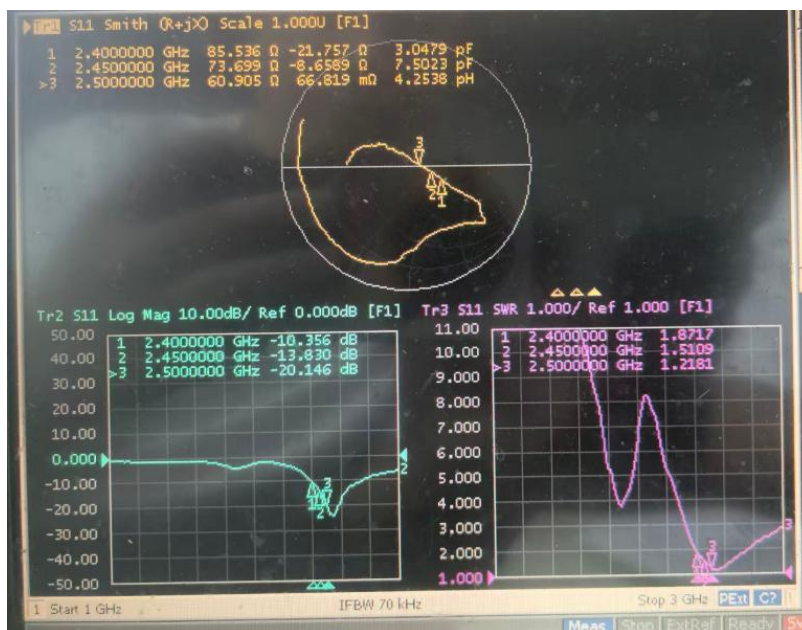
1. S11 Parameter-VSWR

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.



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S11 Parameter-VSWR -BT



frequency (MHZ)	2400	2450	2500
S11 SWR	1.8	1.5	1.2
S11 Smith	85.5 Ω	73.6 Ω	60.9 Ω
S11 Log Mag	-10.3	-13.8	-20.1

S11 Parameter-VSWR -WIFI



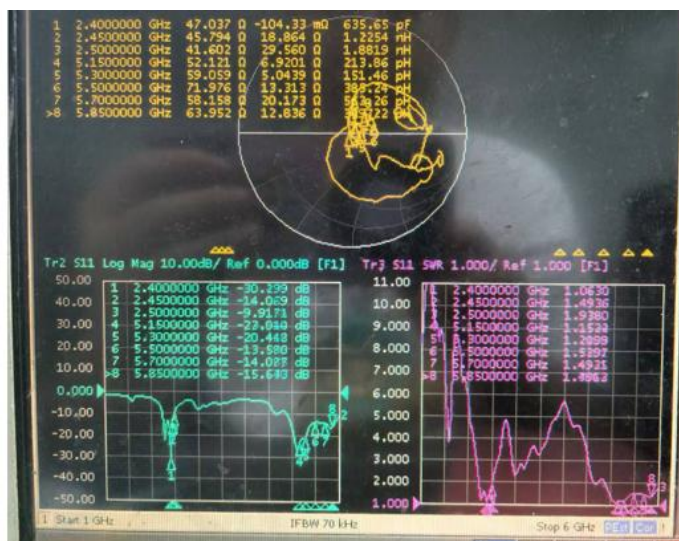
frequency (MHZ)	2400	2450	2500	5150	5300	5500	5700	5850
S11 SWR	1.4	1.6	1.8	1.2	1.1	1	1.3	1.6
S11 Smith	49.9 Ω	67.2 Ω	72.8 Ω	51 Ω	55.8 Ω	54.4 Ω	59.3 Ω	63.5 Ω
S11 Log Mag	-14.5	-11.7	-10.3	-19.6	-24.5	-27.4	-17.7	-11.9

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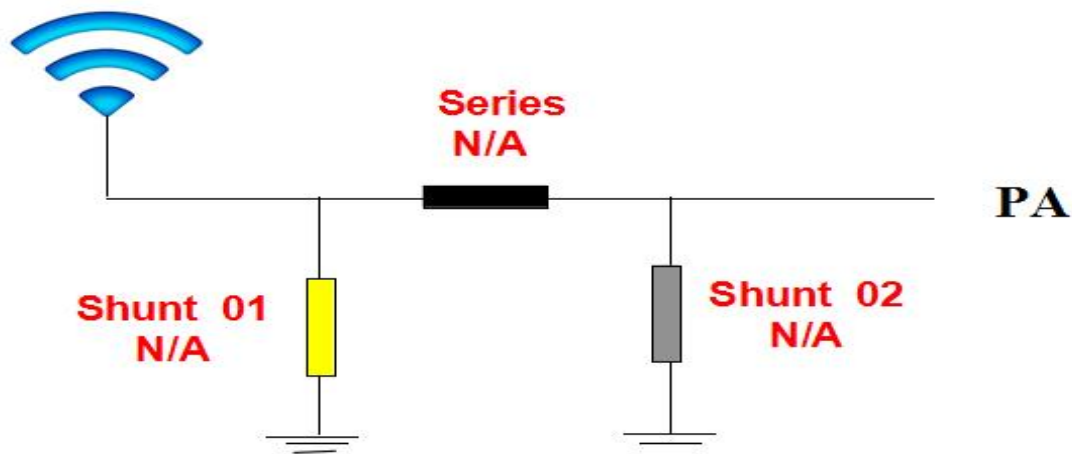
S11 Parameter-VSWR -MIC WiFi



frequency (MHZ)	2400	2450	2500	5150	5300	5500	5700	5850
S11 SWR	1	1.4	1.9	1.1	1.2	1.5	1.4	1.6
S11 Smith	47 Ω	45.7 Ω	41.6 Ω	52.1 Ω	59 Ω	71.9 Ω	58.1 Ω	63.9 Ω
S11 Log Mag	-30.2	-14	-9.9	-23	-20.4	-13.5	-14	-15.6

2. Antenna Matching Network

Antenna



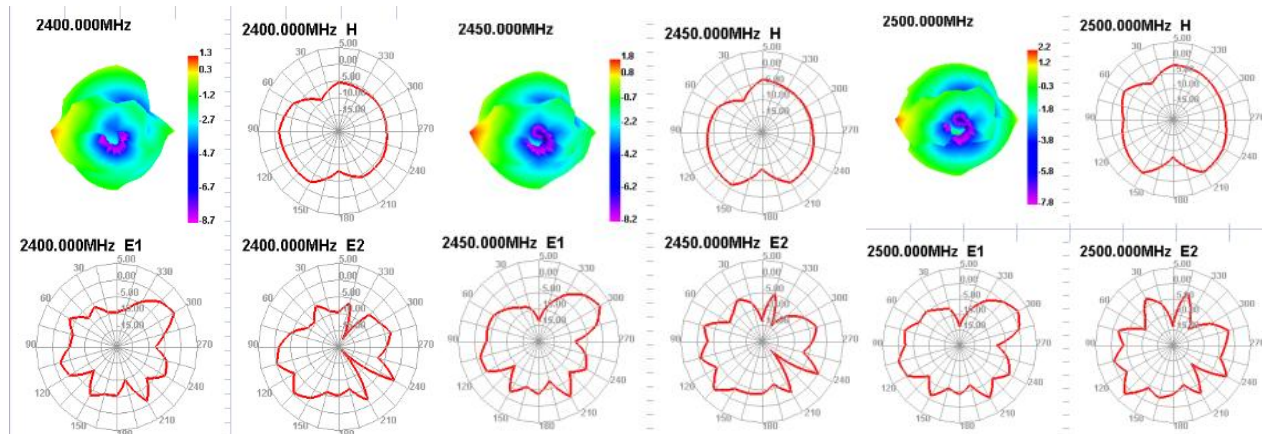
3. Gain & Efficiency-BT

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	42.43	1.33
2450	43.61	1.77
2500	44.54	2.22

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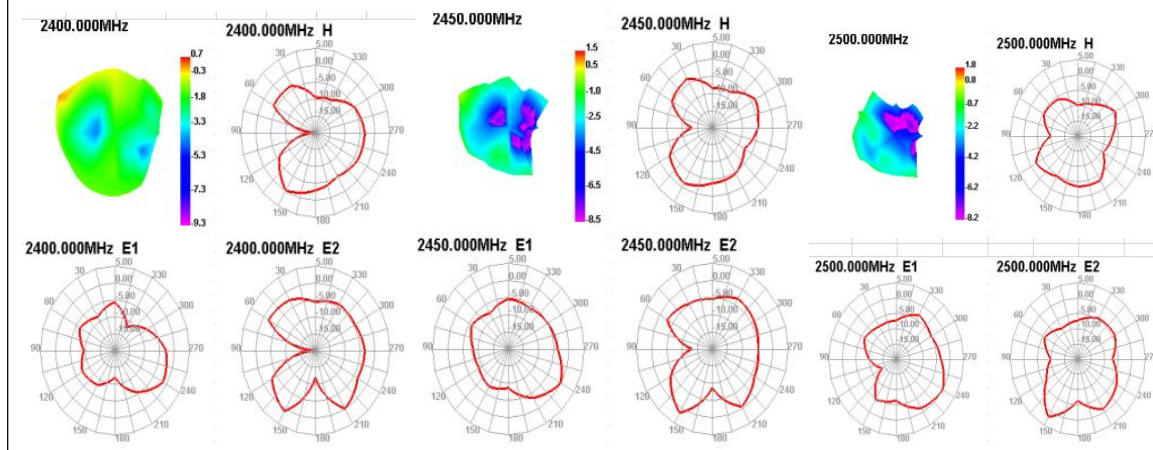


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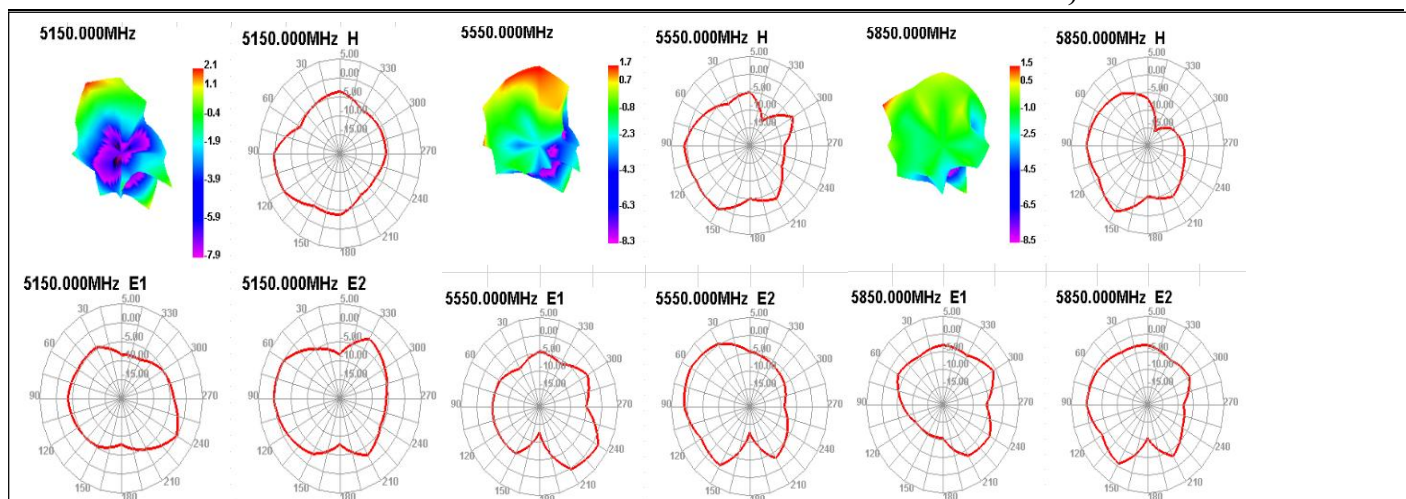
3.1 Gain & Efficiency-WIFI

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	41.75	0.73
2450	43.62	1.46
2500	41.54	1.78
5150	45.35	2.06
5350	44.62	1.79
5550	42.17	1.68
5750	45.55	1.12
5850	43.43	1.49



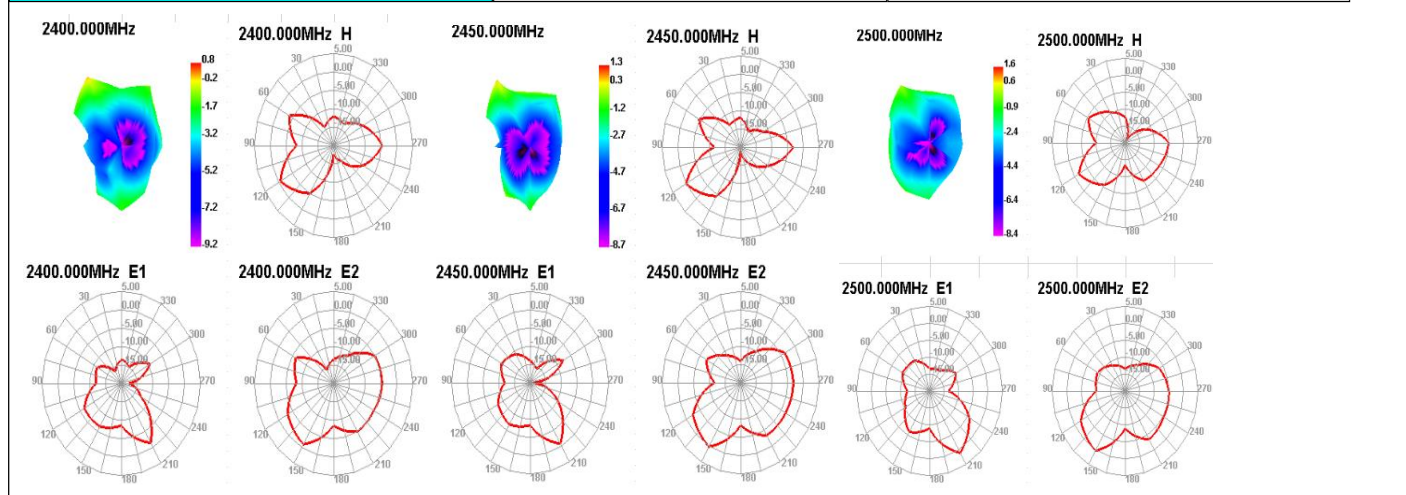


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3.2Gain & Efficiency-Microphone WiFi

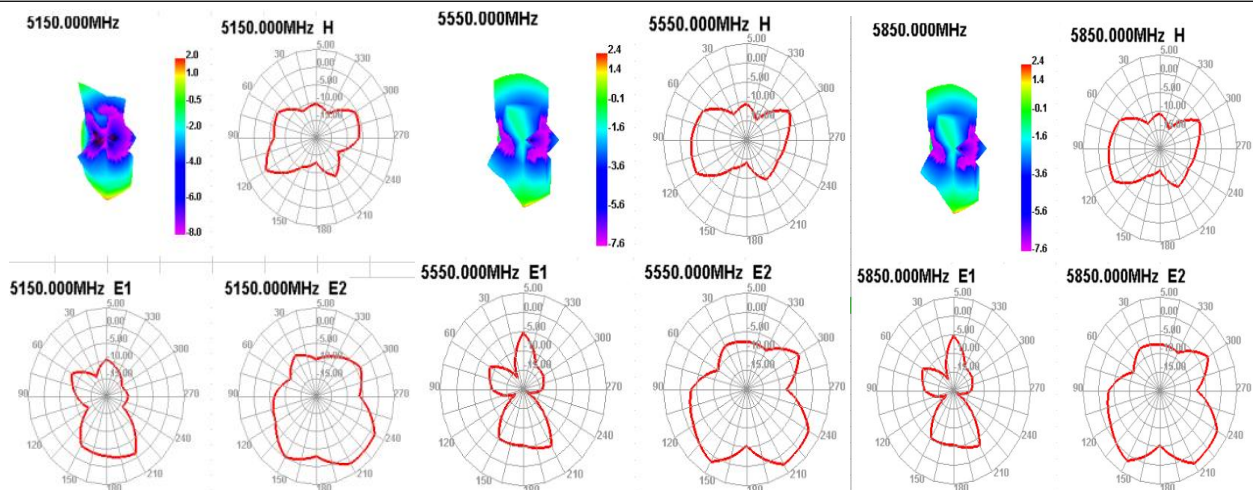
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	40.27	0.78
2450	40.67	1.33
2500	40.19	1.6
5150	43.36	1.98
5350	42.45	1.83
5550	41.13	2.35
5750	40.78	1.75
5850	42.61	2.29



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4. WIFI OTA Data

2.4G WIFI	TRP			TIS		
Channel	CH1	CH6	CH12	CH1	CH6	CH12
802.11b, 11M	14.52	14.25	13.13	-78.87	-77.24	-78.54

5.8G WIFI	TRP			TIS		
Channel	CH36	CH149	CH165	CH36	CH161	CH165
802.11A, 54M	10.79	10.1	12.04	-72.78	-70.65	-69.53



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Reliability Test Report

Test Date	2026. 9. 28	Sample Qty.	3	Inspector	Xu Yanfang	
Test Item	Requirement	testing equipment	Sample 1	Sample 2	Sample 3	PASS/NG
high temperature storage	Expose to +85 °C for 24 hours, recover for 2 hours, and conduct testing	Constant temperature and humidity box	OK	OK	OK	Pass
low temperature storage	Expose to -40 °C for 24 hours, recover for 2 hours, and perform testing	Constant temperature and humidity box	OK	OK	OK	Pass
High temperature operation	Powered on for 24 hours at +60 °C	Constant temperature and humidity box	OK	OK	OK	Pass
Low temperature operation	Powered on for 24 hours at -20 °C	Constant temperature and humidity box	OK	OK	OK	Pass
Salt spray test	(5 ± 0. 5)%sodium chloride, pH Value is 6. 5~7. 2, Temperature of experimental chamber (35 ± 2) °C ☐ 24H ☒ 48H	Salt spray testing machine	OK	OK	OK	Pass
Connector riveting and pulling force	1. 13Wire diameter ≥ 10N 0. 81Wire diameter ≥ 8N RG174 ≥ 60N RG178 ≥ 50N	Push-pull force gauge	≥ 10N	≥ 10N	≥ 10N	Pass
Conclusion						Pass
Inspector & Date	Xu Yanfang 2026. 9. 28		Approval & Date			

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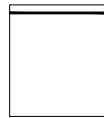


Packing rules

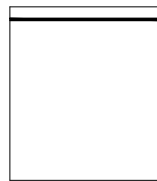
Project name: V09

Product name: FPC antenna

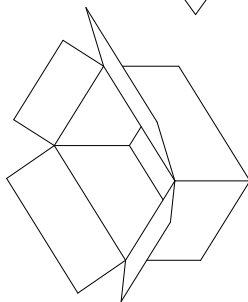
FPC antenna (one)



(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).



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Install Wizard or Other

setup script:

Take 1 PCS of product, tear off the release paper on the back of the FPC by hand, and then align the FPC positioning hole position with the shell positioning hole position (positioning rib position or positioning line), and attach it flat to the shell, as shown in the following figure:

Installation process precautions:

- ☐ Ensure that the FPC is fully attached to the housing after pasting the antenna;
- ☐ Align the positioning hole with the position of the casing positioning column;
- ☐ Align FPC edge with shell edge;
- ☐ When attaching the terminal to the PCBA end of the motherboard, please first align the terminals and then snap them vertically;
- ☐ When disassembling antenna terminals, it is necessary to use a tool (such as a special pry bar) to vertically lift the terminals and not directly pull the wires for disassembly



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ROHS

Certificate

Certificate Number: UNIB25072421HC-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 Mark: 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: UNIB25072421HR-01.

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

RoHS

Aug. 28, 2025
Issue Date

Hoffer Lau

Shenzhen United Testing Technology Co., Ltd.

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Certificate of Compliance