Competitor name：**SHUN DA CHENG TECHNOLOGY CO., LTD**	Numbering	
	version number	A0

sample approval sheet

Machine type：DB75

name of material：WIFI antenna

material code：WF688B-0814R-70

Specification description：WIFI antenna (DB75)FPC(silk-screened SDC HD-61 WF)+0.81 black wire +IPEX4 right L=70mm -21.91*10mm

Engineering drawing number：WF688B-0814R-70

Version of the acknowledgement：A0

SPECIFICATION FOR APPROVAL

Customer Name	Deben		
Customer Project Name	DB75	SDC Project Name	DB75
Customer P/N	620-500181-00	SDC P/N	WF688B-0814R-70
Band	WIFI2.4G		
Version	A0		
Designer Information			
RF Engineer	Yong-hui Yang	R&D Diretor	FuXueRong
ME Engineer	Huang Zongbao		

Catalogue

No.	Item	Page No.
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6	RoHS Control list for Sample	12
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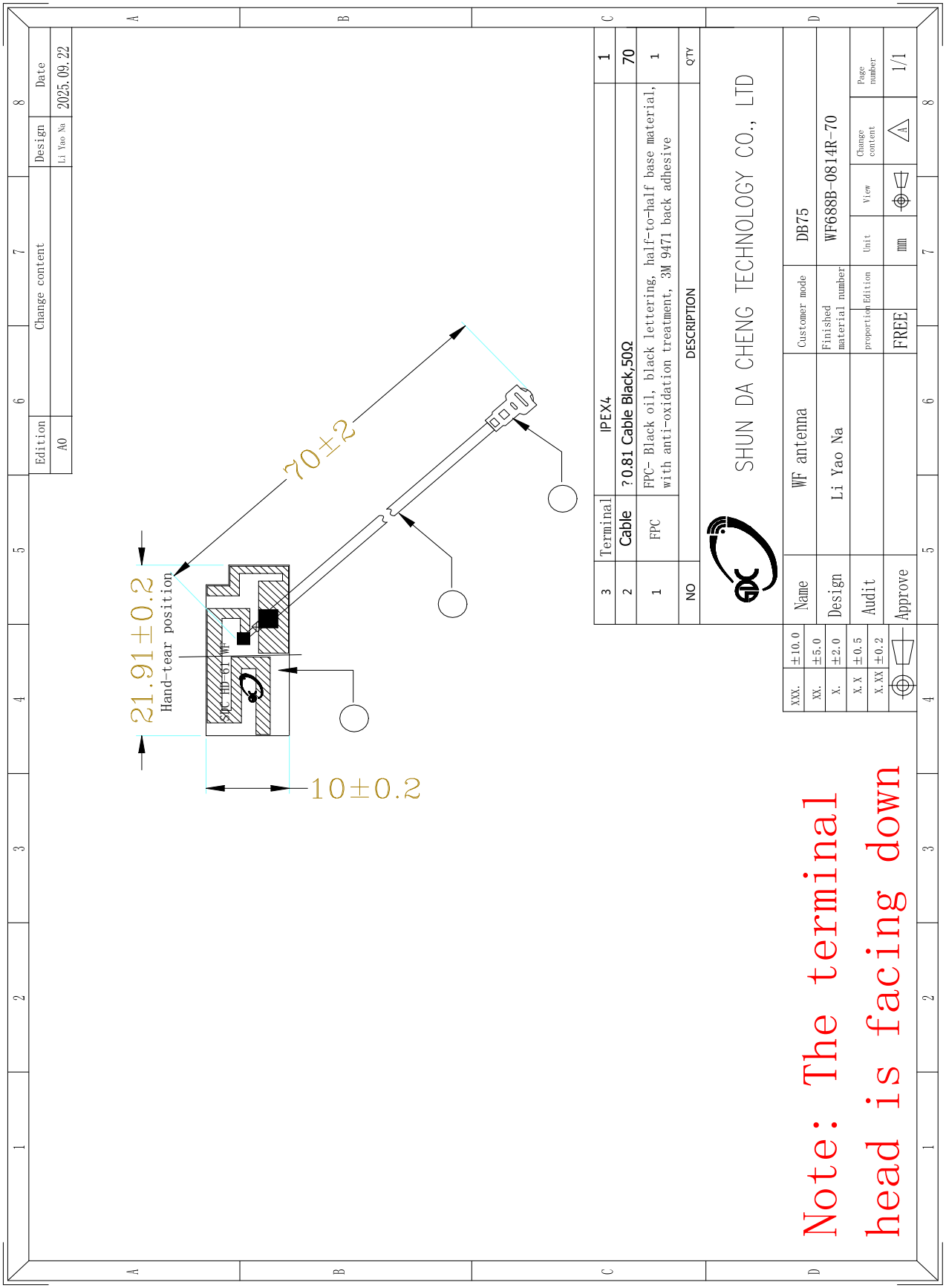
Drawing or Product Image



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

SHUN DA CHENG TECHNOLOGY CO., LTD

Sample Dimensions Test Report

Test Date	2025.09.22	Sample Qty.	3	Inspector	Xu Yanfang
Dimension No.	Standard	Sample 1	Sample 2	Sample 3	Pass/NG
①length	21.91±0.2mm	22	21.95	22	Pass
②width	10±0.2mm	10	10.1	10	Pass
③thickness	0.1±0.03mm	0.1	0.1	0.1	Pass
④Line length	70±2mm	70	71	70	Pass
Conclusion					PASS
Inspector & Date	Xu Yanfang 2025.09.22		Approval &D ate		

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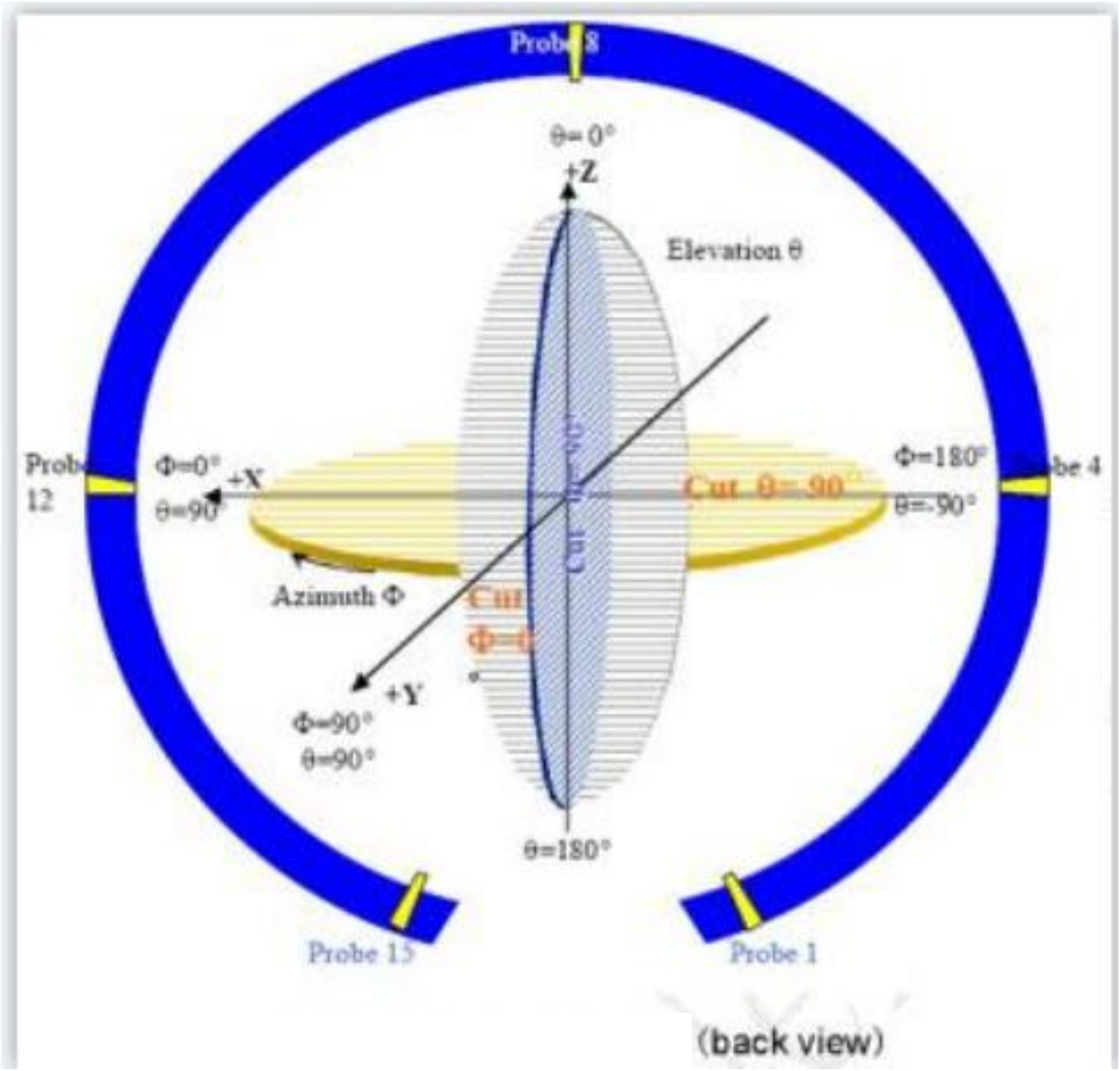
RF Performance Test Report

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:



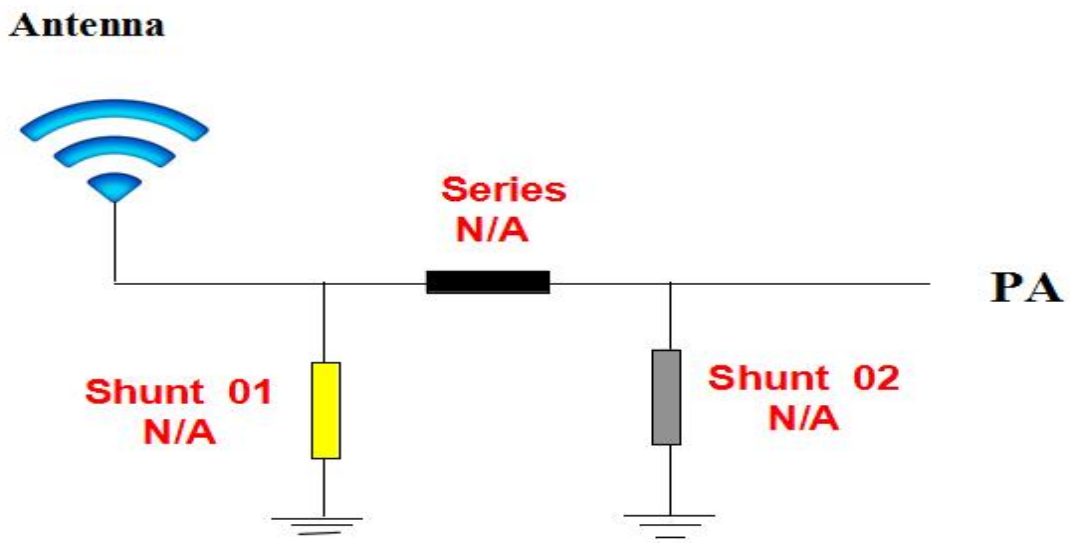
1. *S11 Parameter-VSWR*

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.

S11 Parameter-VSWR

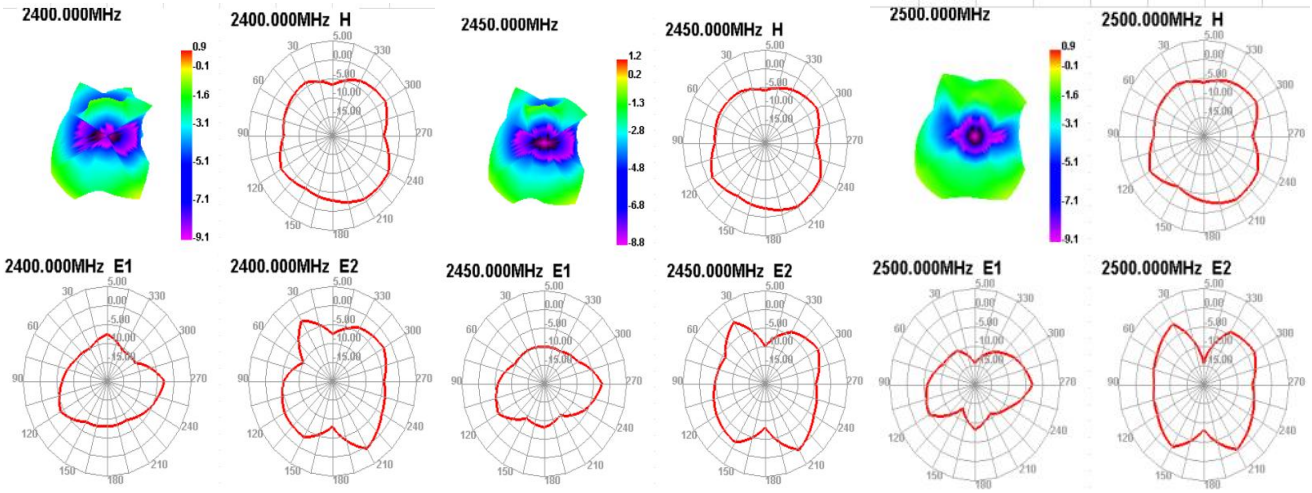
FQY （MHZ）	2400	2450	2500
VSWR	1.5	1.2	1.5

2.Antenna Matching Network



3. Gain & Efficiency

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	42.72	1.45
2450	43.29	1.23
2500	41.68	0.86



Reliability Test Report

Test Date	2025.09.22	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 2025.09.22		Approval &Date			

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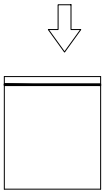
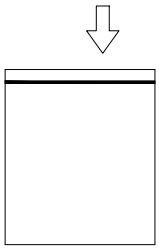
Packing rules

Project name: DB75	Product name: FPC antenna

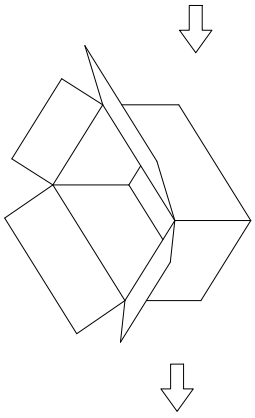
FPC antenna (one)



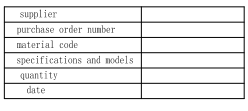
(two) Each PE bag contains 100pcs of products (subject to actual packaging)



(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)



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

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

ROHS

Certificate

Certificate Number: UNIB25072421HC-01

Certificate of Compliance

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

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