

Form Number:

Admission Letter Cover			
customer name	Dongguan Fumao Intelligent Technology Co., Ltd.		
material code	E1300000136		
model	F03S1		
Supplier Code	F03S1		
name of material	antenna		
Material Specifications	Surface-mount ceramic antenna + AA055A component + 3216 chip + thickness of 0.45 mm + bipolar Yongye antenna		
Does it comply with the RoHS standards?	coincidence		
date	2023.11.08		
Supplier Seal			
Supplier Address	4th Floor, Building B5, Xinfu Industrial Park, Chongqing Road, Fuyong Town, Bao'an District, Shenzhen		
contacts	Chen Huaming		
telephone	13691865216		
Supplier Confirmation	commercial affairs	Research and Development Engineering	quality
	Chen Huaming 2023.11.08	Wu Wenzai 2023.11.08	Xu Yanfang 2023.11.08
Fumao confirms	purchase	Research and Development Engineering	quality



SPECIFICATION FOR APPROVAL

Customer Name	FUMAO		
Customer Project Name	F03S1	SDC Project Name	Ceramic Antenna+AA055A+3216
Customer P/N	E1300000136	SDC P/N	TC5383B-A
Band	WIFI2. 4G/BT		
Version	A0		
Designer Information			
RF Engineer	Fu Xuerong	R&D Diretor	Xia Chenglei
ME Engineer	Wong Chung-po		

Approval				Customer Approval	
	Prepared By	Checked By	Approval By	Checked By	Approval By
Signature	Li Yaona	Xia Chenglei	Chen Huaming		
Date	2023. 11. 08	2023. 11. 08	2023. 11. 08		

Change Log				
Version	Change Description	Person in Charge	Approval By	Date



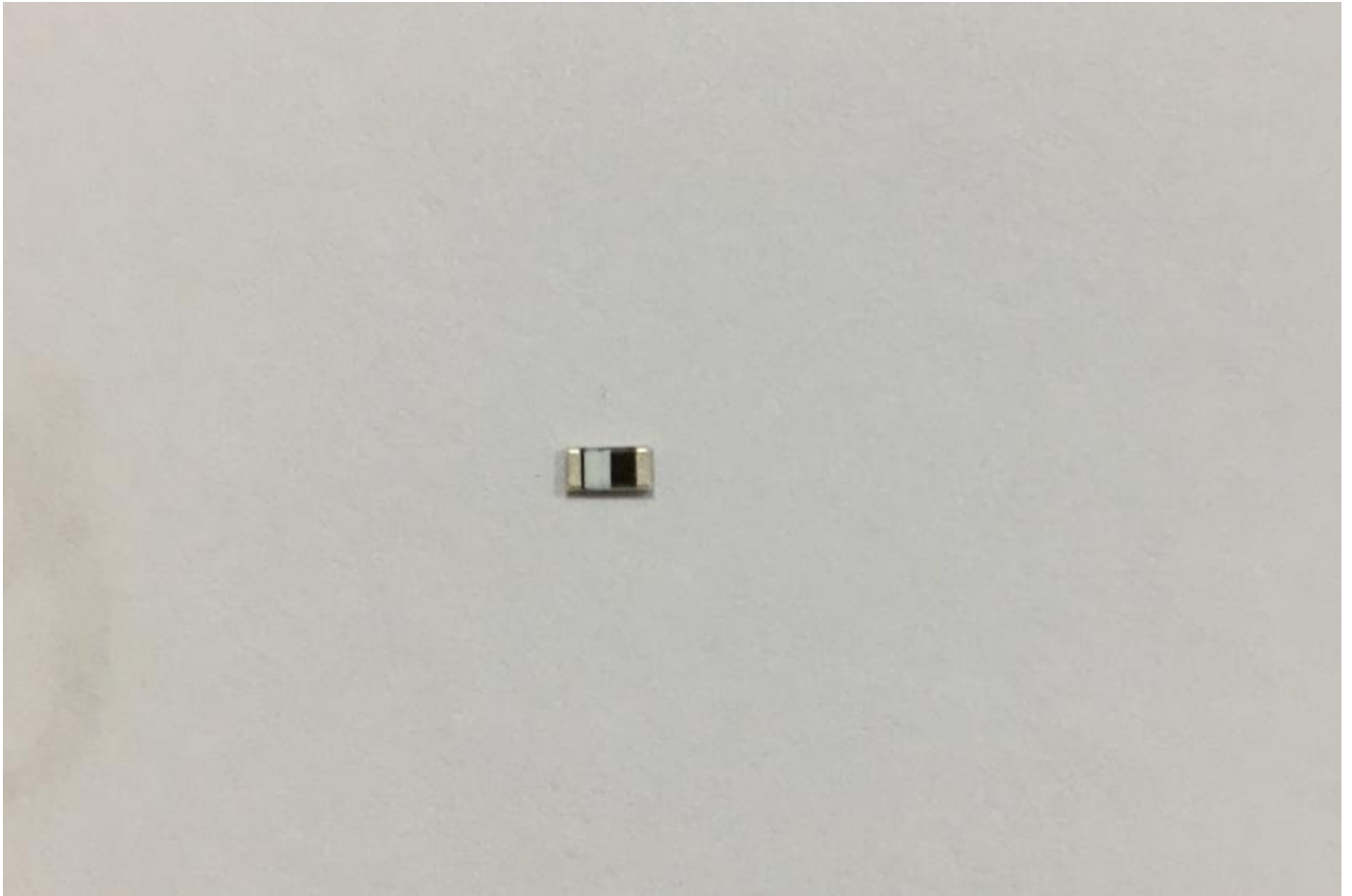
Catalogue

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SHUN DA CHENG TECHNOLOGY CO., LTD

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	2023. 11. 08	Sample Qty.	3	Inspector	Xu Yanfang
Dimension No.	Standard	Sample 1	Sample 2	Sample 3	Pass/NG
①length	$3.2 \pm 0.2\text{mm}$	3.2	3.2	3.2	Pass
②width	$1.6 \pm 0.2\text{mm}$	1.6	1.6	1.6	Pass
③thickness	$0.45 \pm 0.03\text{mm}$	0.45	0.46	0.45	Pass
Conclusion					PASS
Inspector & Date	Xu Yanfang 2023. 11. 08		Approval & Date		

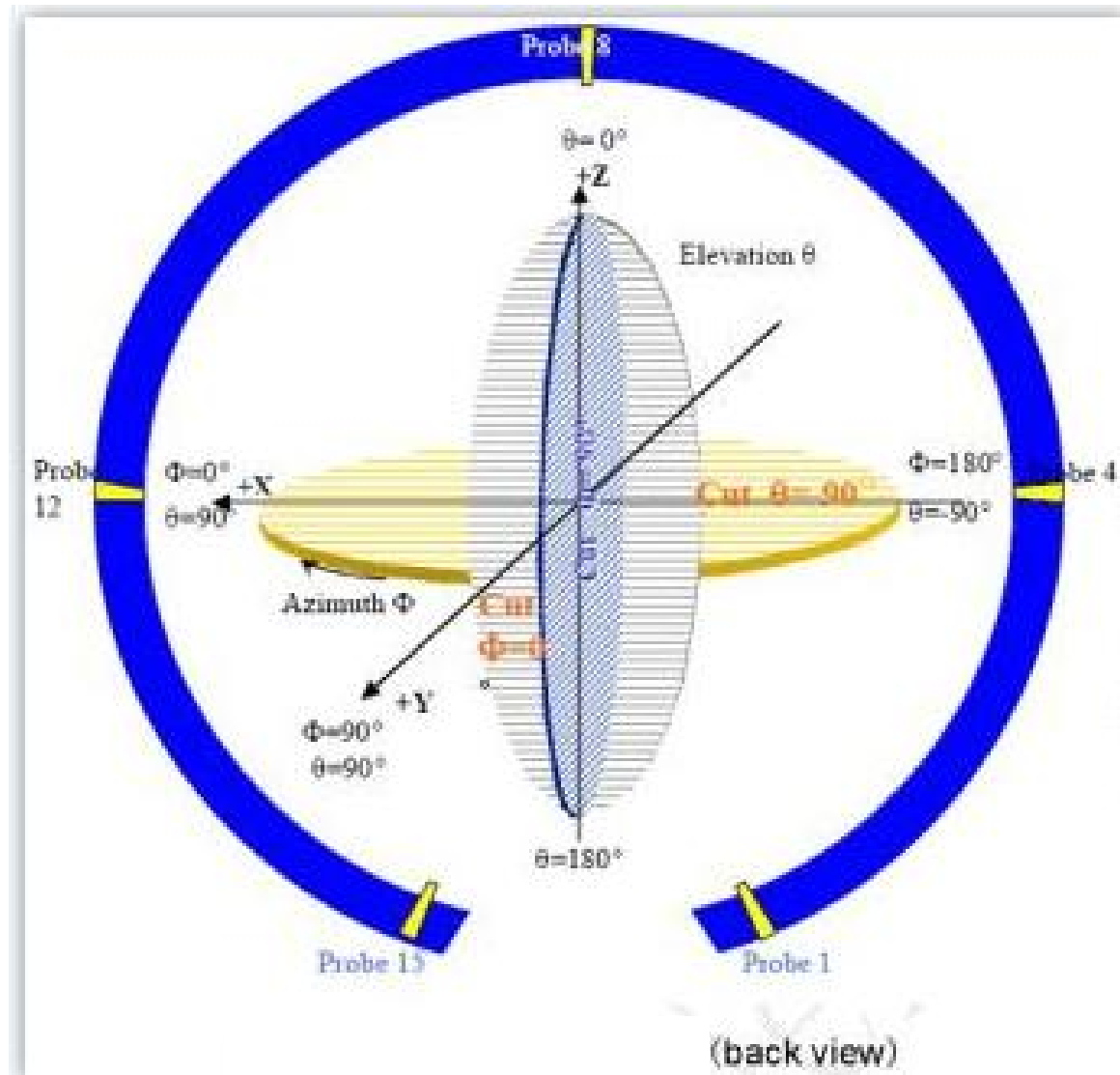
Company Address: 4th Floor, Building B5, Xinfu Industrial Park, Chongqing Road, Fuyong Town, Baoan District,
Shenzhen Telephone :0755-27211658 Fax :0755-29485750



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:

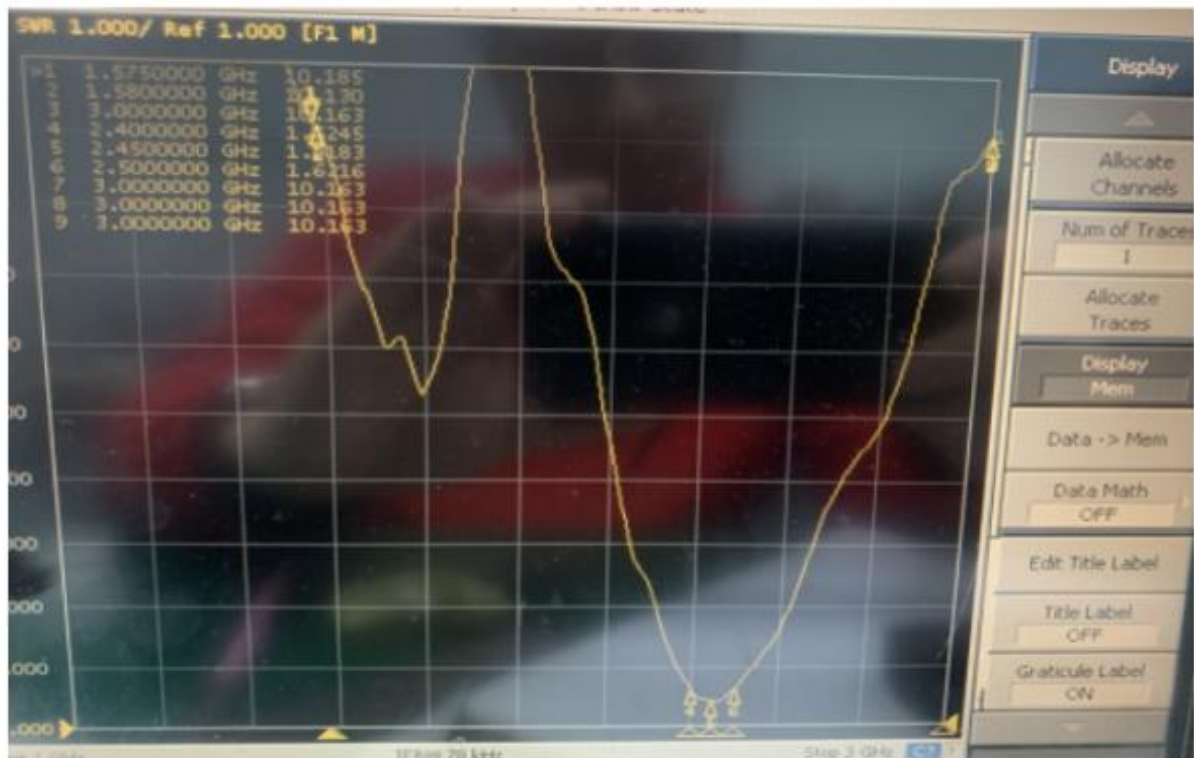


1. **S11 Parameter-VSWR**

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



Frequency(MHz)	2400	2450	2500
VSWR	1.62	1.31	1.62

2. Antenna Matching Network

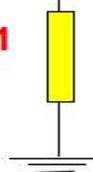
Antenna



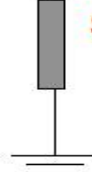
Series
N/A

PA

Shunt 01
N/A



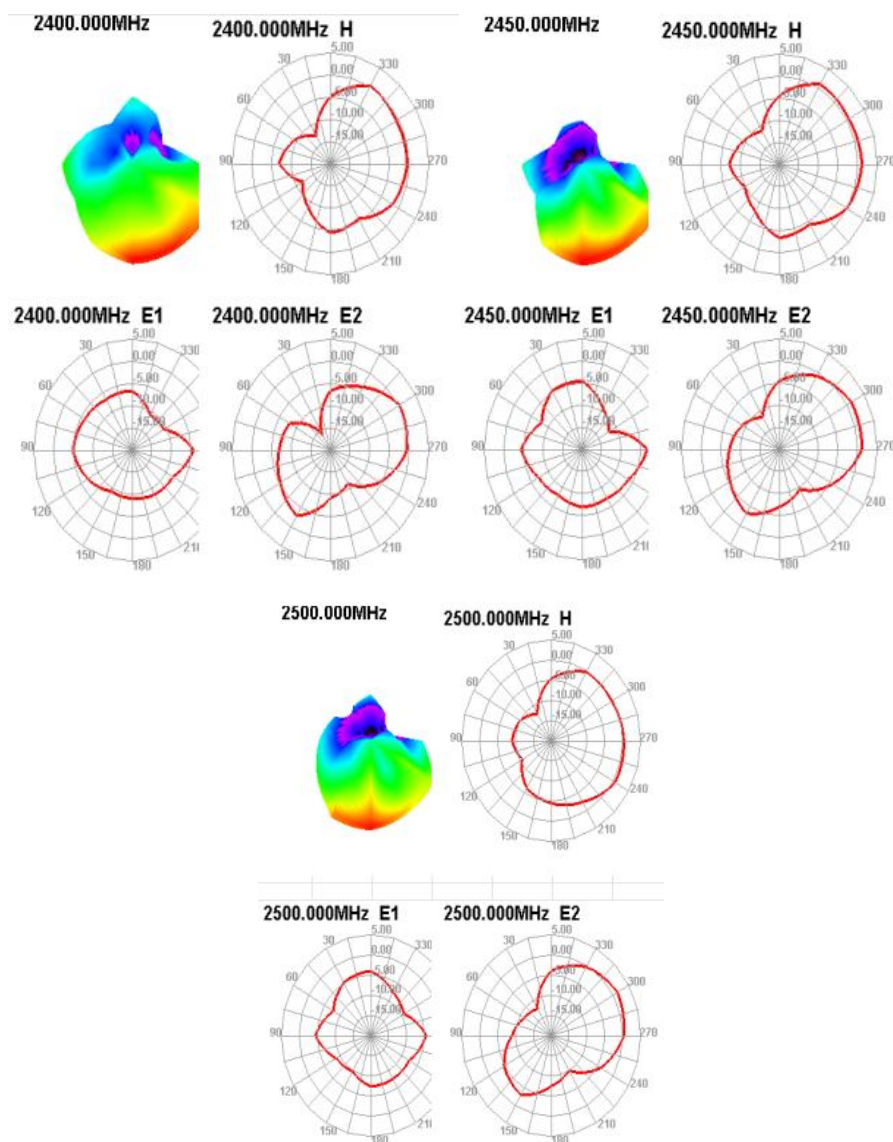
Shunt 02
N/A





3. Gain & Efficiency

WIFI Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	44.27	1.53
2450	45.51	1.64
2500	44.48	1.57





Reliability Test Report

Test Date	2023. 11. 08	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 2023. 11. 08		Approval & Date			