

PRODUCT SPECIFICATION

Version 1.0

Dual-frequency external antenna

PARTNumber:SPWZTX

Customer materialnumber:

Customer Approval Section		
Customer Name		
Department		
Approval		Date:

DESIGN	CHECK	APPROVAL
Wang Changkai	Hou Dewei	Gao Zhao
20241022	20241022	20241022

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Document revision history

Revision	Date	Approved by	Remarks
Version 1.0	20241022	WangCK	Draft

1.Product Parameter

Frequency Range	2.4G~2.5G/5.15G~5.85G
Impedance	50 ohms nominal
VSWR	≤2.0
Cain	2.4G:3.9dbi; 5.150GHz to5.250GHz:5.0dbi; 5.250GHz to5.350GHz:5.0dbi; 5.470GHz to5.725GHz:5.1dbi; 5.725GHz to5.850GHz:5.1dbi;
Admittid power radlat ion	1W
Radation of Radlation	Spring
Radiation	omin
Polarization	Vertical
Connctor Type	SMA

2.Antenna passive parameters

graph 1-1VSWR



	Frequency (MHz)	2400	2500	5150	5850
VSWR	single antenna	1.3	1.5	1.4	1.6

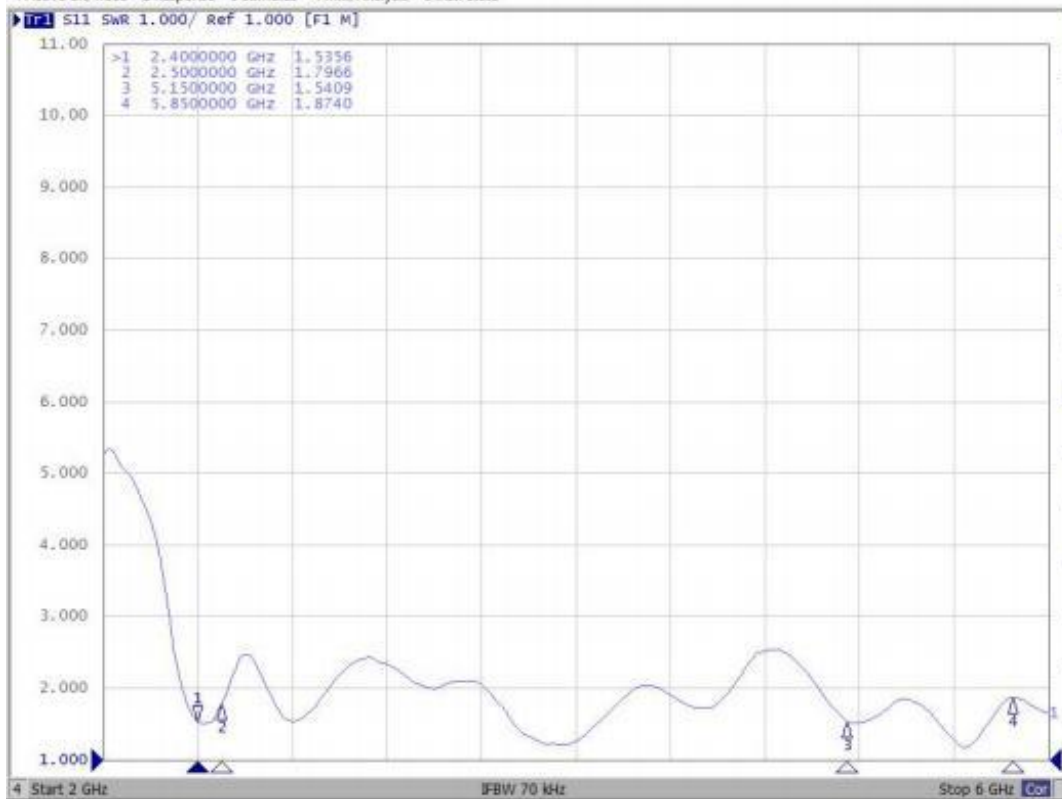


PRODUCTS SPECIFICATION

T232A

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State



E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State





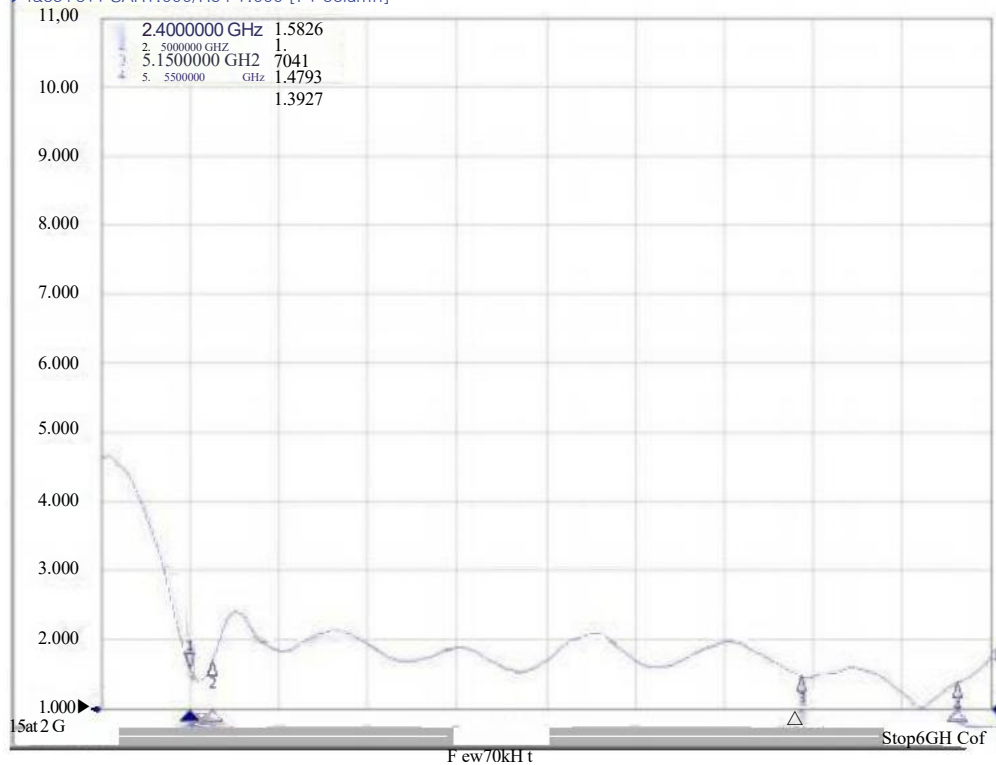
PRODUCTS SPECIFICATION

T232A

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mr/Analysis 5 Inst nte

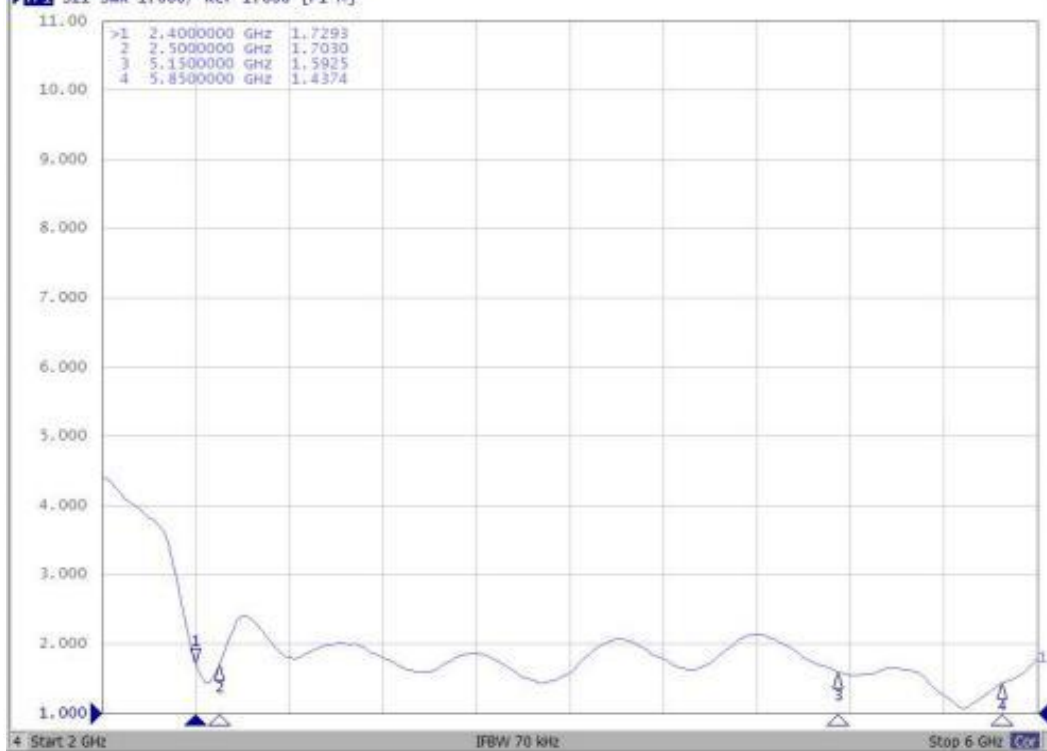
face | s11 SAR1.000/Ref 1.000 [F1 column]



E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mr/Analysis 5 Instr State

face | s11 SWR 1.000/ Ref 1.000 [F1 M]



	Frequency (MHz)	2400	2500	5150	5850
VSWR	1	1.5	1.7	1.5	1.8
	2	1.7	1.6	1.6	1.5
	3	1.5	1.7	1.4	1.3
	4	1.7	1.7	1.5	1.4

Smith Chart

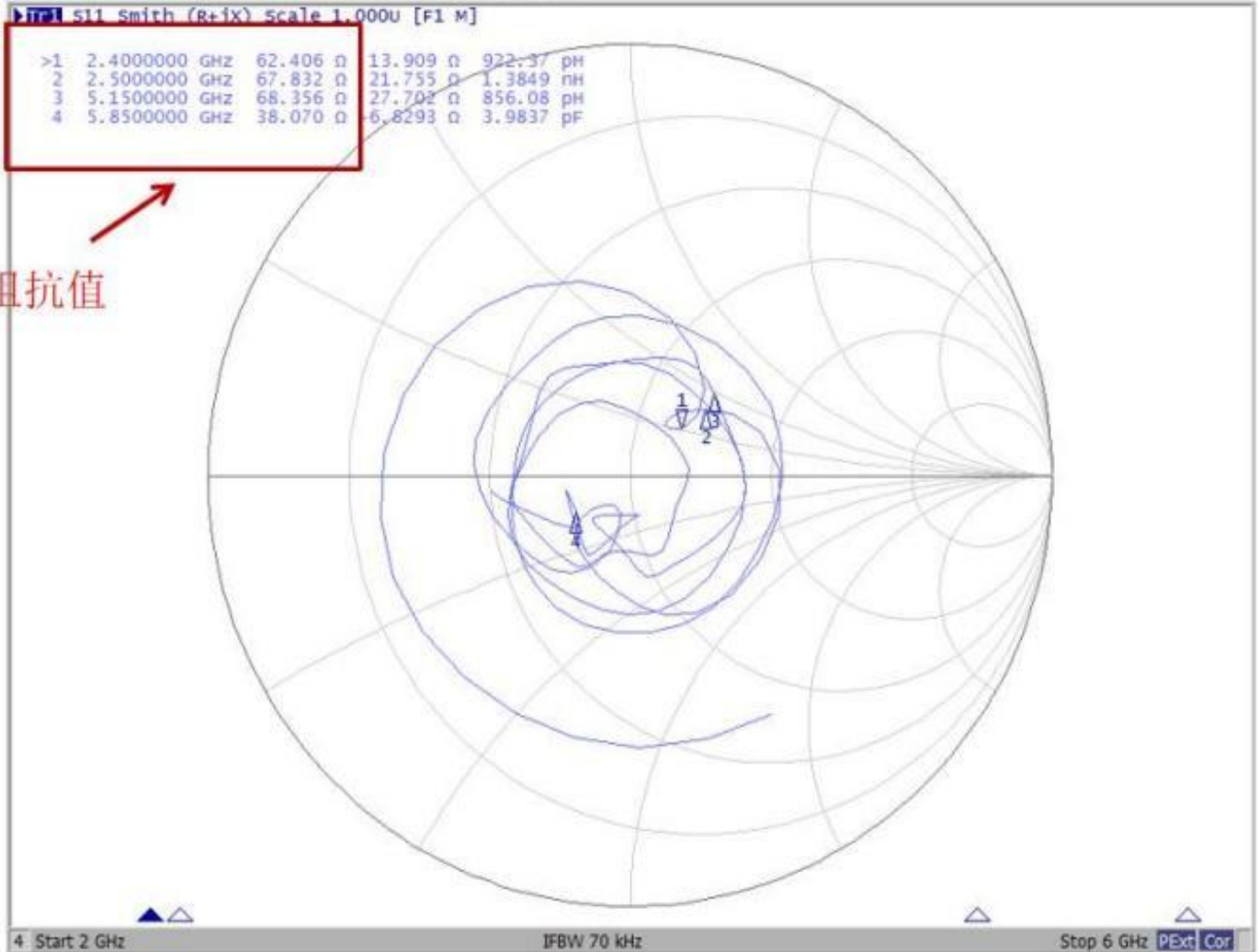
ES071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Dir1 S11 Smith (R+ix) Scale 1.000U [F1 M]

>1	2.4000000	GHZ	62.406	Ω	13.909	Ω	922.37 pH
2	2.5000000	GHZ	67.832	Ω	21.755	Ω	1.3849 nH
3	5.1500000	GHZ	68.356	Ω	27.702	Ω	856.08 pH
4	5.8500000	GHZ	38.070	Ω	6.8293	Ω	3.9837 pF

[阻抗值]



Passive Test

Frequency (MHz)	2400	2450	2500	5150	5500	5850
Efficiency(%)	68	68	69	66	67	67
Gain(dBi)	3.8	3.9	3.9	5.0	5.0	5.1

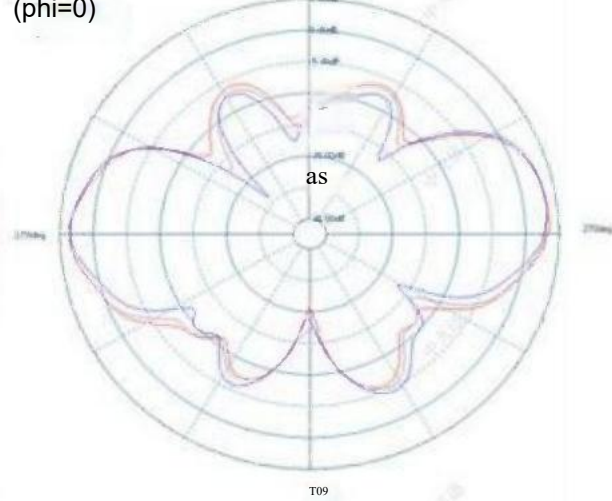
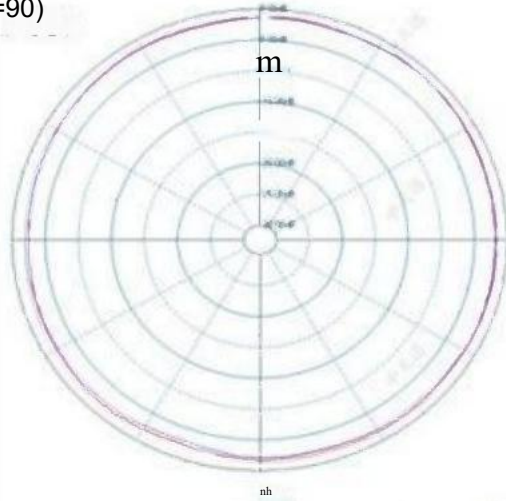
2D/3D Radiation Pattern Results

2.4G

XOY plane XOZ plane

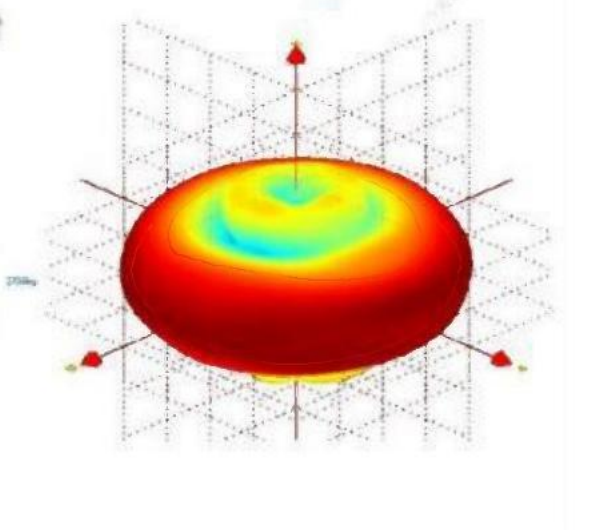
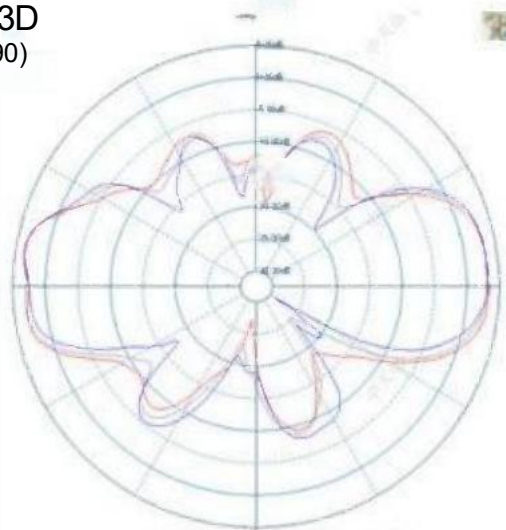
(theta=90)

(phi=0)

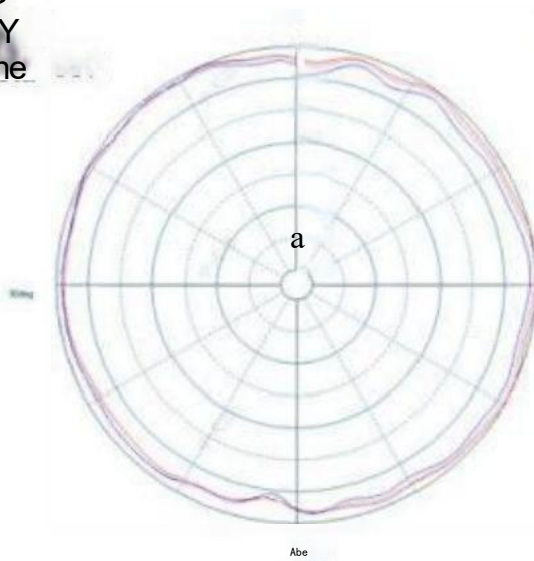


YOZ 3D

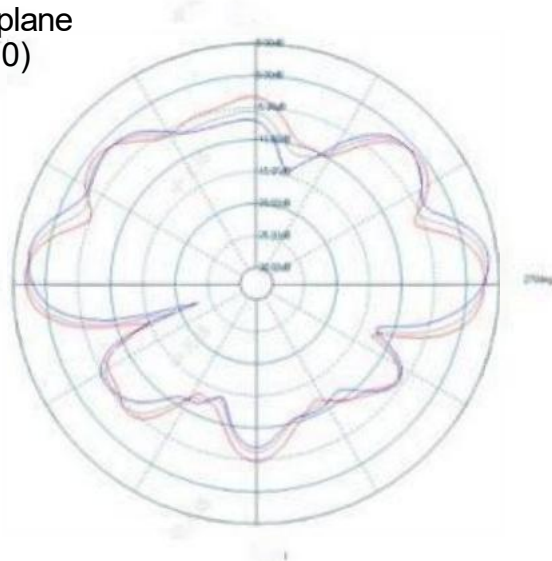
(phi=90)



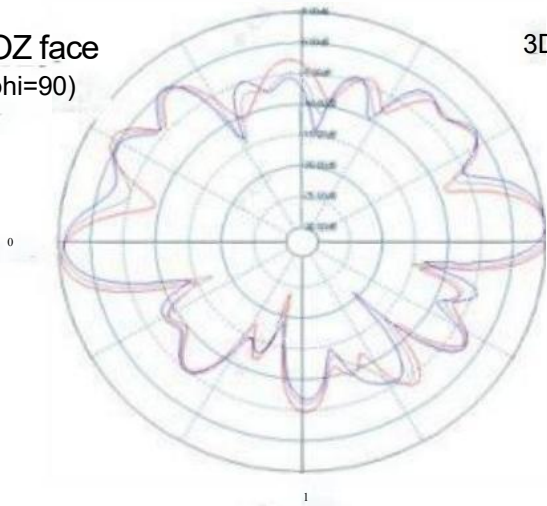
5G
XOY
plane



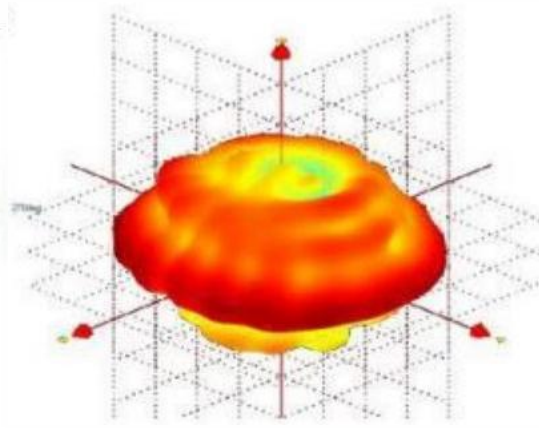
XOZ plane
($\phi=0$)



YOZ face
($\phi=90$)



3D



Environment treatment

Placement method

1 2 3 4





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Environment Character istic

NO.	ITEM	TEST CONDITION	SPECIFICATION
7-1	HighTemperature/Humidity Storage Test(non operating)	1. Temperature: $+70\pm 2^{\circ}\text{C}$ 2. Humidity: 90~95% RH 3. Time: 48 hrs	No material deformation is allowed.
7-2	Low Temperature/Humidity Storage Test(non operating)	1. Temperature: $-30\pm 2^{\circ}\text{C}$ 2. Humidity: 0% RH 3. Time: 48 hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.

3. reliability testing

Test Report							
Shangxing Name (Product name)	Dual-frequency external antenna	Sample Model (Part Model)		ambient temperature (Ambient temperature)	20±5℃	Test date (Date of test)	Starts April 3, 2023 Ends April 5, 2023
Shangxing Shuli (Specimens quantity)	2PCS	Customer Material Number (Customer number)		Relative humidity	50-60%RH	client (Client/Dept)	quality department
Test reason (Test reasons)	New Material Verification, New Process Verification, ORT Test, Expired Material, Customer Complaints High-pitch defect rate ■ Others: _			Test Basis (Test documentation)	☒ Product Drawings ☐ Antenna Reliability Test Specification Customer requirements: Inspection report for shipment and other:		
test item : (Test project)	Salt Spray Test						
test condition : (Test condition)	1. Place the product in the test chamber at 30 degrees±5 degrees. 2. Adjust the parameters of the test chamber: NaCl (anhydrous). Concentration 5%±1% pH value: 6.5-7.2 Laboratory temperature: 32-38℃ Compressed air pressure: 10±0.01 (kg/n 2). In the spray: 10-2.0ML/80cm²/H. Relative humidity: 85%±2%; Test sample placement Angle: 3 0 degrees/-10 degrees 3. The storage time is 48 hours. 4. After cleaning, place it at room temperature for 2 hours for						
Test requirements (Test note)	Requirements: The antenna should have no deformation or discoloration, and the coating layer should have no peeling or cracking or other adverse phenomena.						
experimental rig (Test equipment)	device name	unit type	Check date	Next check-in date			
	Salt spray tester	HY-60	2022/4/26	2023/4/25			
Test image (Test picture)	Sample pictures before the test			2. test facility			
							
	Test process parameters			Illustration of sample inspection after the test			
							
end of test (Test result)	The overall appearance of the antenna is good, with no deformation, no discoloration, no peeling, no cracking or other adverse phenomena.						
Final determination (Final result)	☒ qualification ☐ disqualification						
Comments:							

Test Report							
Sample name (Product name)	SMA female adapter cable, dual-band external antenna, nut, washer	Sample Model {Part Model}		ambient temperatur e (Ambient temperature)	20±5℃	Test date (Date of test)	Starts April 3, 2023 Ends 202314/4
Shangxing Shuli (Specimens quantity)	3PCS each	Customer Material Number (Customer number)	1	Relative temperat ure (Relativ e humidity)	50-60%RH	client (ClientDept)	quality departmen t
Test reason (Testreasons)	New Material Verification, New Process Verification, ORT Test ☐ Expired materials ☐ Customer complaints/requests ☒ Other:			Test basis (Test documentatio n)	☒ Product Drawings ☐ Antenna Reliability Test Specification ☐ Customer Requirements ☒ Delivery Inspection Specification Other:		
test item : (Test project)	High-temperature storage test						
test condition : (Test condition)	High temperature:85℃, duration:24 hours						
Test requirement s (Test note)	After the test, there is no deformation, discoloration, wrinkling, shedding or loosening, and all the functional performance is normal						
experimenta l rig (Testequipment)	device name	unit type	Check date	Next check-in date			
	Constant temperature and humidity test chamber	PTH-11-100PS	2022/4/26	2023/4/25			
Test image (Test picture)	1. Sample images before testing			2. Test equipment			
							
Test image (Test picture)	5. Test process parameters			6. Test sample inspection diagram			
							
end of test (Testresult)	After the test, there were no obvious abnormalities in appearance, no deformation, no discoloration, no peeling, no loosening, and all functions and performances were normal						
Final determinati on (Final result)	☒ Pass/Fail						

Test Report							
Sample name (Product name)	SHA Mother Adapter Cable / Dual-Frequency External Antenna / Nut / Bushing	Sample Model (Part Model)		ambient temperature (Ambient temperature)	20±5℃	Test date (Date of test)	Starts April 3, 2023 Ends 2023/4/4
Sample count (Specimens quantity)	3PCS each	Customer Material Number (Customer number)	1	Relative humidity	50-60%RH	client (Client/Dept)	quality department
Test reason (Test reasons)	New material validation, new process validation, ORT-style, expired materials, customer complaints/requests High-pitch defect rate ■ Others: _			Test basis (Test document ation)	■ Product Drawing and Antenna Reliability Test Specification Customer requirements: Inspection specification for shipment and other:		
test item : (Test project)	Low-temperature storage test						
test condition : (Test condition)	Lowtemperature:-40℃, duration:24 hours						
Test requirements (Test note)	After the test, the appearance showed no deformation, discoloration, wrinkling, peeling or loosening, and all functions and performances were normal						
experimental rig (Test equipment)	Devicename:Constant temperature and humidity test chamber	unit type		Check date		Next check-in date	
		PTH-11-100FS		2022/4/26		2023/4/25	
Test image (Test picture)	1. Product images before testing			2. Test equipment			
							
Test image (Test picture)	5. Test process parameters			6. Test sample inspection diagram			
							
end of test (Test result)	After the test, there were no obvious abnormalities in appearance, no deformation, no discoloration, no peeling, no loosening, and all functions and performances were normal						
Final determination (Final result)	■ Pass, Not Pass						

Comments;



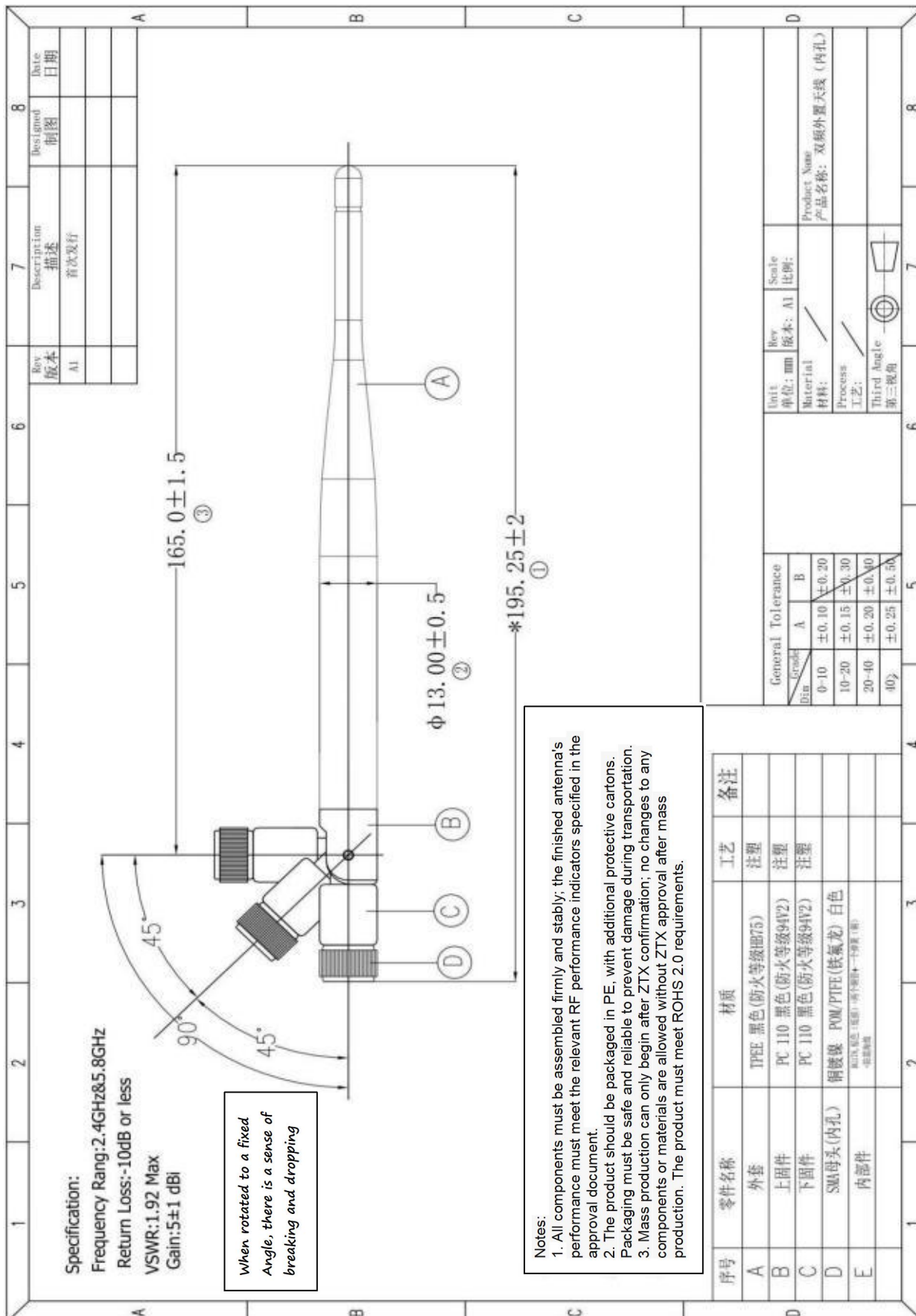
PRODUCTS SPECIFICATION

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Test Report

Sample name (Product name)	SMA female adapter cable, dual-band external antenna, nut, washer	Sample Model (PartModel)		ambient temperature (Ambient temperature)	20±5℃	Test date (Date of test)	Starts April 3, 2023 Ends April 5, 2023
Sample count (Specimens quantity)	3PCS each	Customer Reference (Customer number)	/	Relative temperature (Relative humidity)	50-60%RH	client (Client/Dept)	quality department
Test reason (Test reasons)	New Material Verification, New Process Verification, ORT Test, Expired Material, Customer Complaints High-pitch defect rate ☒ Others: _			Test Basis (Test documentation)	☒ Product Drawings ☐ Antenna Reliability Test Specification ☐ Customer Requirements ☒ Delivery Inspection Specification Other:		
test item : (Test project)	High temperature and high altitude test						
test condition : (Test condition)	Temperature: 60 degrees humidity: 90% time: 48H						
Test requirements (Test note)	After the test, there is no obvious abnormal appearance, discoloration, wrinkling, shedding, and all the functional performance is normal						
experimental rig (Testequipment)	device name	unit type	Check date	Next check-in date			
	Constant temperature and humidity test chamber	JF12038HA2HBL	2022/4/26	2023/4/25			
Test image (Test picture)	1. Pre-test images			2. Test equipment			
							
Test image (Test picture)	5. Test process parameters			4. Post-test images			
							
end of test (Test result)	After the test, the appearance showed no obvious abnormalities, no discoloration, no wrinkling, no peeling, and all functional performance was normal.						
Final determination (Final result)	☒ Pass ☐ Fail						
Comments:							

4. Antenna structure drawing



5.Finished antenna picture



SPECIFICATION

SHEET FOR APPROVAL

(Revision : R : A2)

CUSTOMER (Customer Name)	TCL
CS P/N (Client Model)	07-ANTWC0-D550AG
PART NAME (Part Name)	WiFi Antenna
FREQUENCY (frequency)	2400-2500MHz 5150-5850 MHz
GSD NO. (Material Number)	WC0D-55/PIFA/2.4G+5G/ External Pull / 550mm / 720pcs / TCL / Red phosphorus excluded
DATE (date)	2019-04-29

CUSTOMER	
CHECK	APPROVAL

Note:

Signature (Customer confirmation signature and seal):

—

DESIGN	CHECK	APPROVAL
Ryan Zhu	Tang Hongjun	Chen Yuko
20190429	20190429	20190429

Hui Zhou Gaoshengda Technology Co., Ltd.

China Huizhou Zhongkai High-tech Development Zone Huaxing Road No.2
HUA XING RD., NO.2, ZHONGKAI HIGH-TECH DEVELOPMENT AREA, HUIZHOU, CHINA

ANTENNA SPECIFICATION

GSD P/N:WC0D-55/PIFA/2.4G+5G/
External Pull Wire, 550mm, 720pcs,
TCL, Red Phosphorus Excluded

Editor: Zhu Xiaohui

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Revision history

Edition	Date	state
A1	2019-04-01	First Edition Acknowledgments
A2	2019-04-29	Update shipping labels and add customer part numbers

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GSD P/N:WC0D-55/PIFA/2.4G+5G/
External Pull Wire, 550mm, 720pcs,
TCL, Red Phosphorus Excluded

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1. Summary

1.1 Explanation of Nouns

dBi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
TRP	Total Radiated Power
TIS	Total Isotropic Sensitivity
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
PCS	Personal Communication System
PHS	Personal Handly-phone System
SAR	Specific Absorption Rate
PCB	Printed Circuit Board
CDMA	Code Division Multiple Access
WCDMA	Wideband Code Division Multiple Access
LTE	Long Term Evolution

2. Test Mode

2.2.1 VSWR

VSWR is measured using an antenna test jig connected to a Vector Network Analyzer (E5071D) in free-space configuration.

2.2.2 TRP&TIS&Gain&Efficiency

The TRP&TIS&Gain&Efficiency test was conducted in a standard 8m×4m×4m ETS high-performance anechoic chamber. The test terminal was horizontally mounted on a turntable, with the standard horn antenna configured for horizontal polarization. The

Shenzhen Zhongtianxun Technology Test System successfully met all CTIA Active& Passive testing requirements for various communication standards.



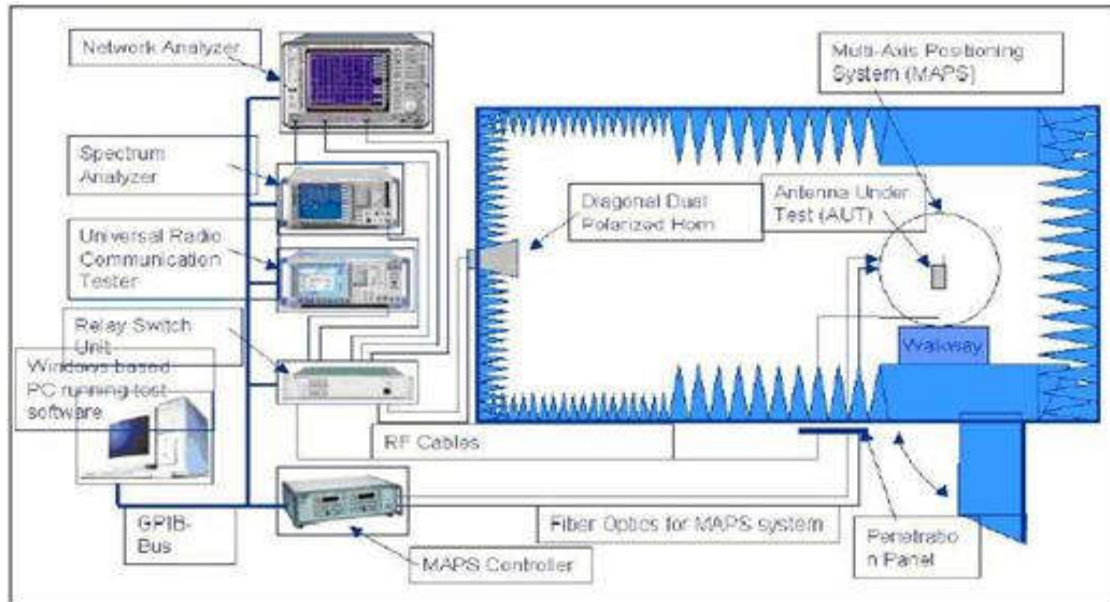
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External Pull Wire, 550mm, 720pcs,
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2.2.3 Testing Facility



3. Test Information

3.1 Item Description

This project is a TV WIFI project, 2400-2500MHz; 5150-5850 MHz

1. The WIFI antenna is designed as a steel plate at the bottom of the TV display;
2. Connect to the WIFI module via coaxial cable

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External Pull Wire, 550mm, 720pcs,
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4. Test Data

4.1 Antenna test data VSWR



4.2 VSWR AND GAIN

VSWR		GAIN	
Freq. Band	OPEN SPEC	Band Freq.	OPEN SPEC
2400MHz	≤ 2.0	2400MHz	$\geq -1.0\text{dBi}$
2500MHz	≤ 2.0	2500MHz	$\geq -1.0\text{dBi}$
5150MHz	≤ 2.0	5150MHz	$\geq -1.0\text{dBi}$
5850MHz	≤ 2.0	5850MHz	$\geq -1.0\text{dBi}$

※Measuring a 50Ω test jig is connected to a network analyzer to measure the VSWR.

※※All test value is done in customer approval fixture.

4.3 GAIN Efficiency

WIFI gain :

	WIFI				
Frequency (MHz)	2400	2450	2500	5150	5850
Average Gain Efficiency (dB)	1.42 (44%)	1.72 (48%)	1.65 (45%)	2.34 (61%)	2.57 (66%)

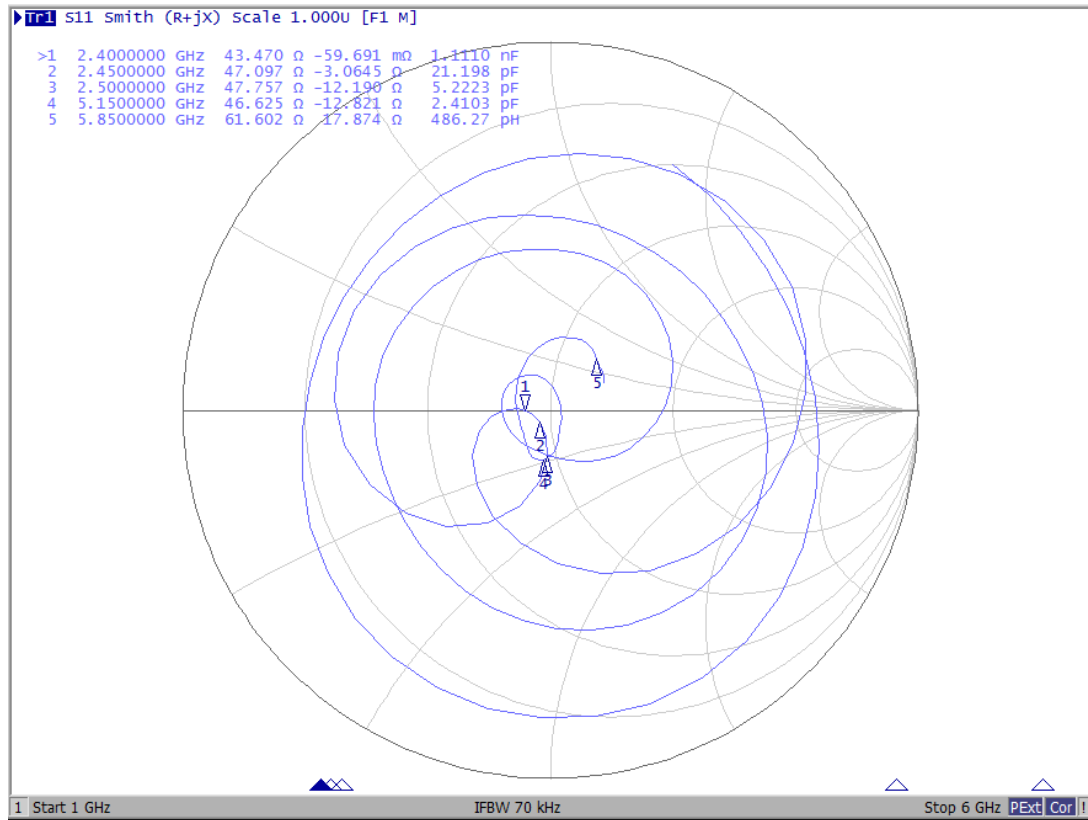
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4.4 Smith Chart



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5 Mechanical Specification

5.1 Mechanical Configuration (L=550MM)

[illegible]

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标记	版本	说明	审核	日期	批准	日期
	A1	新增剥线尺寸				
	A2	项目名由WC0D-55改为WC0D-55 (TCL)				
①	A3	端子线总长加长3mm, 管控公差变更;				

剥线尺寸图

铆压端子后尺寸图

备注:

1>RF端子需通过48H盐雾测试;
2>端子与线材铆压后拉力需25N>Φ1.13×9, 8N;
3>包装时需用PE袋装好摆放整齐, 运输过程中产品不能挤压, 线条需保持直顺, 不能有明显扭曲变形现象;

材质说明:

序号	部件名称	材质工艺	料号
①	同轴线	双锡 / FEP / 黑色	SY113/50-055
②	RF端子1代	磷青铜 (镀金)	CM-958-C113-Y-B-1U-A0

环保要求:

MATTER	RoHs (PPM)
Cd	≤100
Pb	≤1000
Hg	≤1000
Cr6+	≤1000
PBB	≤1000
PBDE	≤1000

制图	单位	版本	比例	物料编号
射频	mm	A3	射频 (同轴线) 黑色	1/1
审核	工艺	/	产品名称	WC0D-55 (TCL) 同轴线
批准	纸张	A4	图框编号	ZTY-QR-RD-013

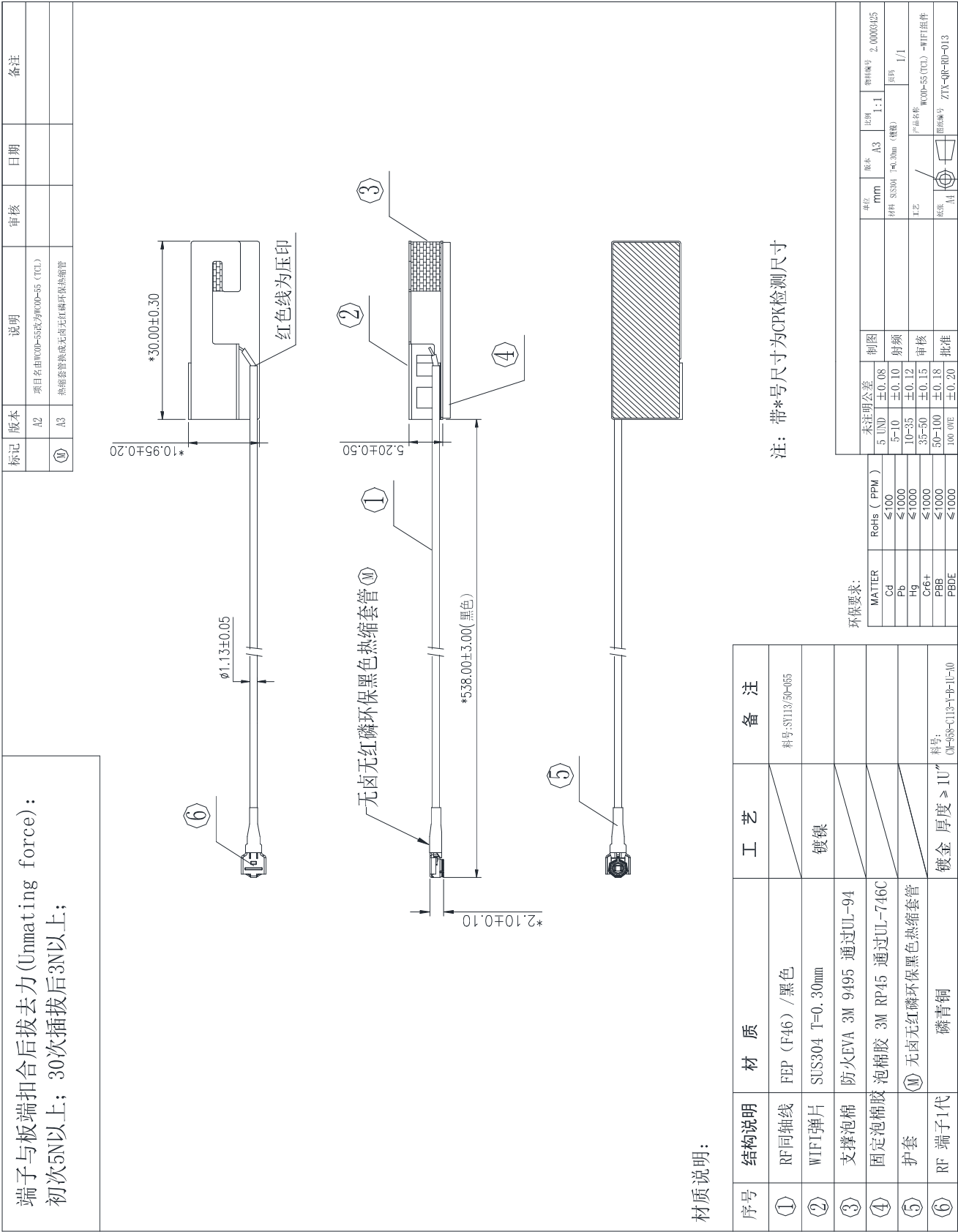


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External Pull Wire, 550mm, 720pcs,
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6. Salt-Spray test

35°C, 85%RH, 48Hours(According to MIL-STD-810E)The salt-spray is generated from a 5% salt solution., The VSWR, Gain, Radiation Pattern must be met specifications after the salt-spray test.

7. Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
7-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: +70 ±2°C 2.Humidity: 90~95%RH 3.Time: 48hrs	No material deformation is allowed.
7-2	Low Temperature/Humidity Storage Test(non operating)	1.Temperature: -30±2°C 2.Humidity: 0%RH 3.Time:48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.

8. MSDS

Material Composition Table

Order number	Material (Raw Material) Name	Third-party notarized chemical report test number	Third-party notarized chemical report testing unit	Third-party notarized chemical report test date	state	D
1	SUS304	SZXEC 1800784502	SGS	2018/05/ 24	valid	P P P
2	Fix foam	SHAEC 1813620601	SGS	2018/06/ 27	valid	P P P
3	3M Back Glue	CANEC 1812243602	SGS	2018/06/ 20	valid	P P P
4	RF Terminal 1st Generation	XMNEC1800529711 A01	SGS	2018/05/ 16	valid	P P P
		A 21900004631010 02	CTI	2019/01/ 02	valid	P P P
		A 21802470641010 02	CTI	2018/12/ 18	valid	P P P
		A 21802470641010 01	CTI	2018/12/ 18	valid	P P P
5	Tinned wire	A	CTI	2018/06/	valid	P P

		21801050692 01		27		
6	Heat-shrinkable tubing	A 218004436910101 6R1	CTI	2018/04/ 16	valid	
7	Support foam	C 1903190380 01	CPST	2019-03- 25	valid	



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9. The packing way

包装规范									
产品名称	产品型号	文件编号	版本	工序序号/名称	工序工时	日产量			
WiFi天线	WC0D-55 (TCL)	ZTX-QD-WI	A1	包装/装箱	/	/			
				作业方法 (自检验该工序作业合格后, 方能流入下一道工序)	注意事项:				
 图1: 确认数量/橡皮筋包扎/贴标签  图2: 装袋/贴标签  图3: 装箱/贴标签  图4: 贴观品票/封箱				1. 每40pcs产品整齐、橡皮筋包扎, 用PE开口胶袋包装, 贴小标签, 填写产品名称、物料号、数量、周期等信息;	注意标签有无贴错、漏贴、漏贴, 箱子有无破损;				
				2. 将独立包装好的产品, 每9袋 (360PCS) 装入 (36*28cm) PE封口胶袋中, 贴标签, 填写产品名称、物料号、数量、周期等信息;					
				3. 装箱, 纸箱规格 (38*26*9cm) 每小箱装2袋 (720pcs) 贴小标签, 条码标签;					
				4. 装箱, 纸箱规格 (45*32.5*42cm) 每大箱装5小箱 (3600pcs) 尾数除外;					
				5. 外箱的左上角贴观品票, 标签内容包括 (物料名称, 物料编码, 数量, 生产日期, 箱号/箱数, 毛重/净重等) 不可有漏写, 写错现象;					
				6. 箱子用胶纸以“工”字型封箱。					
				物料名称	物料编码	用量	使用工具		
				PE开口袋	1.12.0000030	90	240*160*0.05mm		
				PE封口袋	1.12.0000026	10	360*280*0.10mm		
				橡皮筋		90			
				纸箱	1.12.0000044	5	38*26*9cm		
				纸箱	1.12.0000004	1	45*32.5*42cm		
				标签					
修订内容									
版本					修订日期	修订人			
制订					品质确认	批准			



图1: 确认数量/橡皮筋包扎/贴标签



图2: 装袋/贴标签

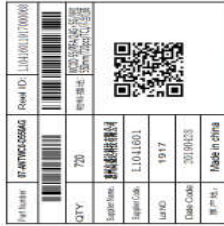


图3: 装袋/贴标签



图4: 贴现品票/封箱



ANTENNA SPECIFICATION

GSD P/N:WC0D-55/PIFA/2.4G+5G/
External Pull Wire, 550mm, 720pcs,
TCL, Red Phosphorus Excluded

Editor: Zhu Xiaohui

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Appendix: Shipping Label Template

现品票			
Box ID:	BL1041601191778107	物料名称: Part Name:	外拉天线
		物料编码: Part Number:	07-ANTWC0-D550AG
数量: QTY:	3600	生产日期: Date Code:	20190428
供应商名称: Supplier Name:	惠州高盛达科技有限公司		
供应商代码: Supplier Code:	L1041601		
原产地: Source Area:	Made in china		
批次/BIN值: Lot/BIN NO:		备注: Note:	WC0D-55/PIFA/2.4G+5G/外拉 550mm/720pcs/TCL/不含红磷

		
PN: G. 5. 13. WC0DXXIAAA		
LOT NO: 1205-1811170013		Date Code: 190428
		VENDOR: ZTX
		QTY: 3600
REEL NO: 201004419042890001		
PART DESC: WC0D-55 (TCL) WIFI天线组件		
深圳市中天迅通信技术股份有限公司		

Part Number:	07-ANTWC0-D550AG	Reel ID:	L10416011917000068
			
QTY:	720	物料描述:	WC0D-55/PIFA/2.4G+5G/外拉 550mm/720pcs/TCL/不含红磷
Supplier Name:	惠州高盛达科技有限公司		
Supplier Code:	L1041601		
Lot NO:	1917		
Date Code:	20190428		
原产地:	Made in china		

L1041601
07-ANTWC0-D550AG
WC0D-55/PIFA/2.4G+5G/外拉 /550mm/720pcs/TCL/不含红磷
QTY: 360 PCS
20190428
Made in china
A1

L1041601
07-ANTWC0-D550AG
WC0D-55/PIFA/2.4G+5G/外拉 /550mm/720pcs/TCL/不含红磷
QTY: 40 PCS
20190428
Made in china
A1



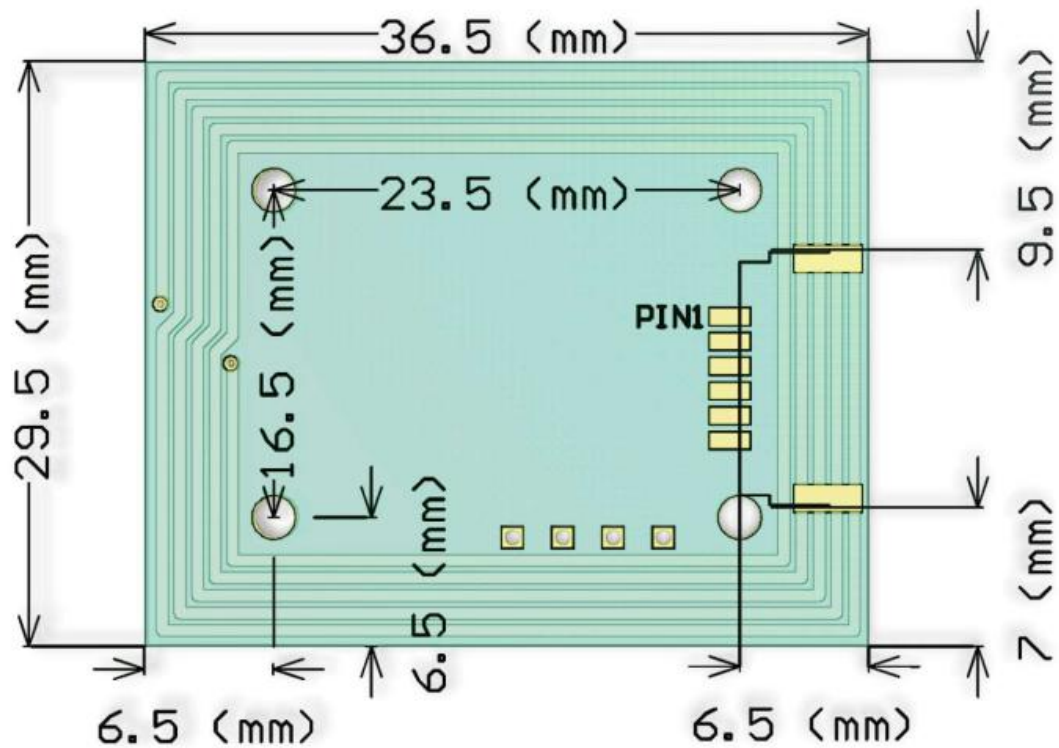
HUIZHOU GAOSHENGDA TECHNOLOGY CO.,LTD

Antenna Specifications

1. Summary

Manufacturer	Wacebo USA, Inc.
Address	8 The Green Ste R Dover, DELAWARE 19901, United States
Antena Tye	PCB Antenna
Antenna Model	B22-3730-6P
Frequency Rang	13.56 MHz
Gain (Peak)	0dBi

2. Antenna Dimension



We statement that All measurements were performed radiated and therefore additional antenna gain documentation is not required.