

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

CUSTOMER(客户名称)	Anker	
CS P/N(客户机种)	T8S10	T810
PART NAME(品名)	ANT0 ASSY	
FREQUENCY(频率)	2400~2500MHz	
ZTX NO.(物料编号)	2.00005593	A04-32002000098
DATE(日期)	2022-12-01	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章): _____

MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		LIPING. LIU	YIQING. LIN	

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ANTENNA SPECIFICATION

CUS P/N :T8S10 ANT0 ASSY
ZTX P/N :T8S10 ANT0 ASSY

ApplicationDate:Dec,01,2022
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Rev: R:A1
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Revision history

Rev	Date	Description
A1	2022-12-01	FIRST ISSUE

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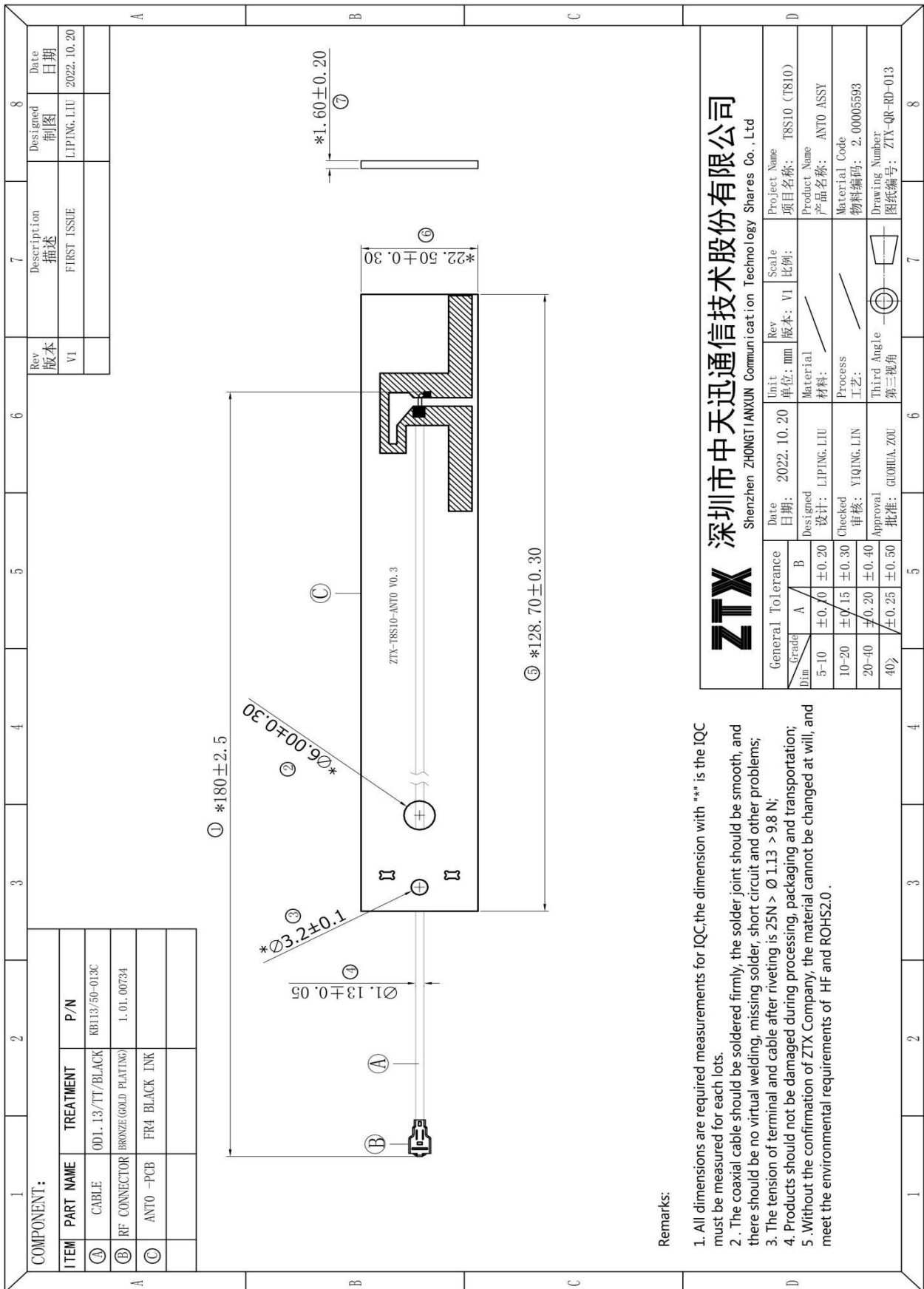
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1. Mechanical Specification

1-1 Mechanical Configuration (T8S10 ANT0 ASSY)



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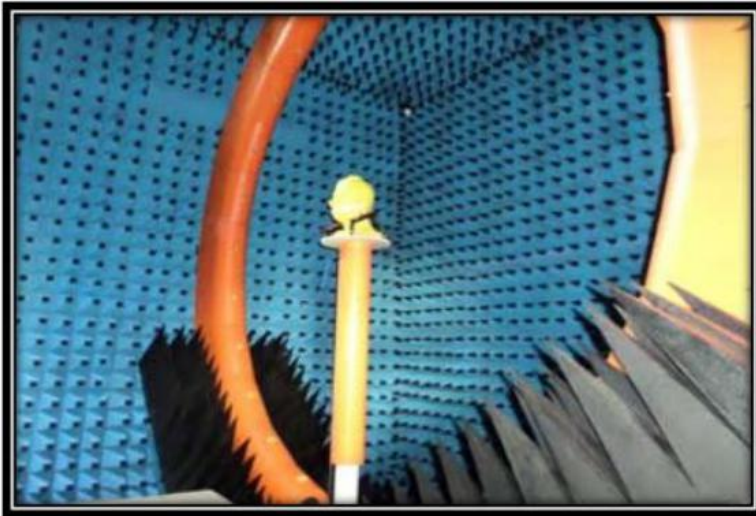
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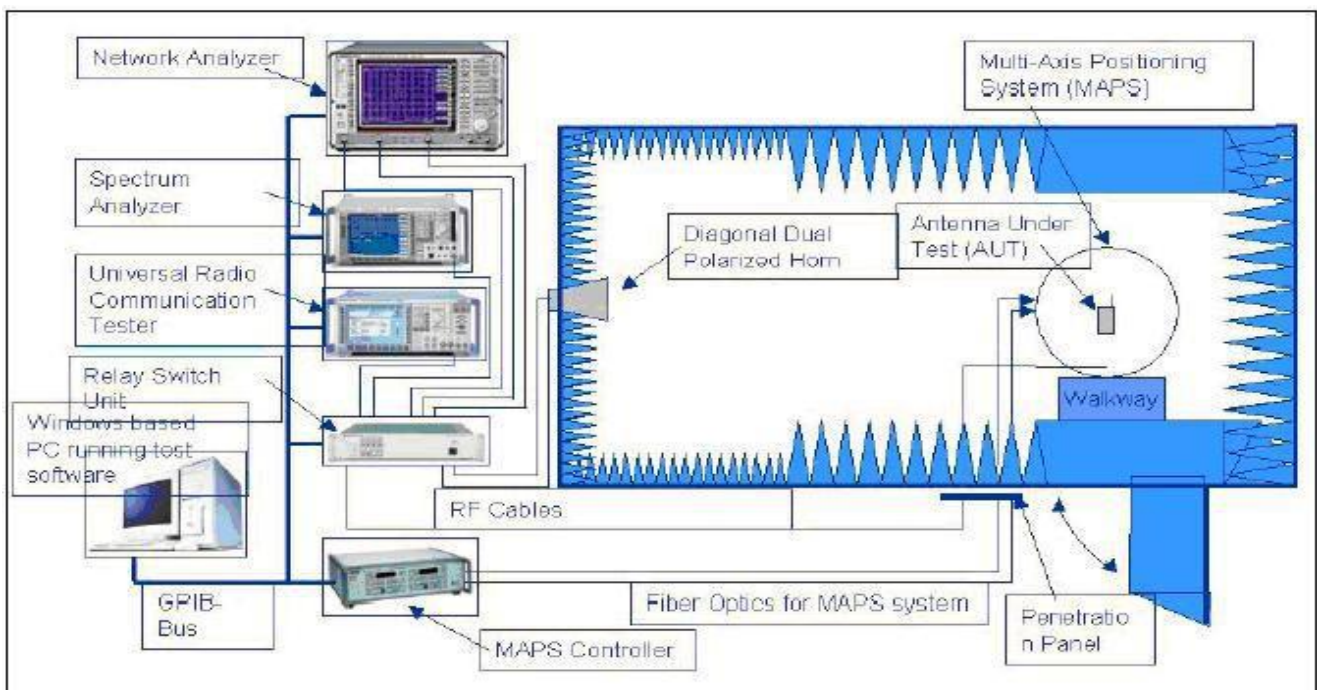
2.Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

Testing range:

Support active, passive testing of GSM/CDMA/WCDMA/TD-SCDMA/LTE/WIFI/WLAN/WiMax/BT/GPS/MIMO/UWB within 0.4-6G.



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3.Test Results Summary

3-1 Active Test

	11B	11M		11M
	Channels	TRP	Channels	TIS
1	2.412 GHz	27.42	2.412 GHz	-87.83
6	2.437 GHz	27.3	2.437 GHz	-87.51
11	2.462 GHz	27.39	2.462 GHz	-86.37

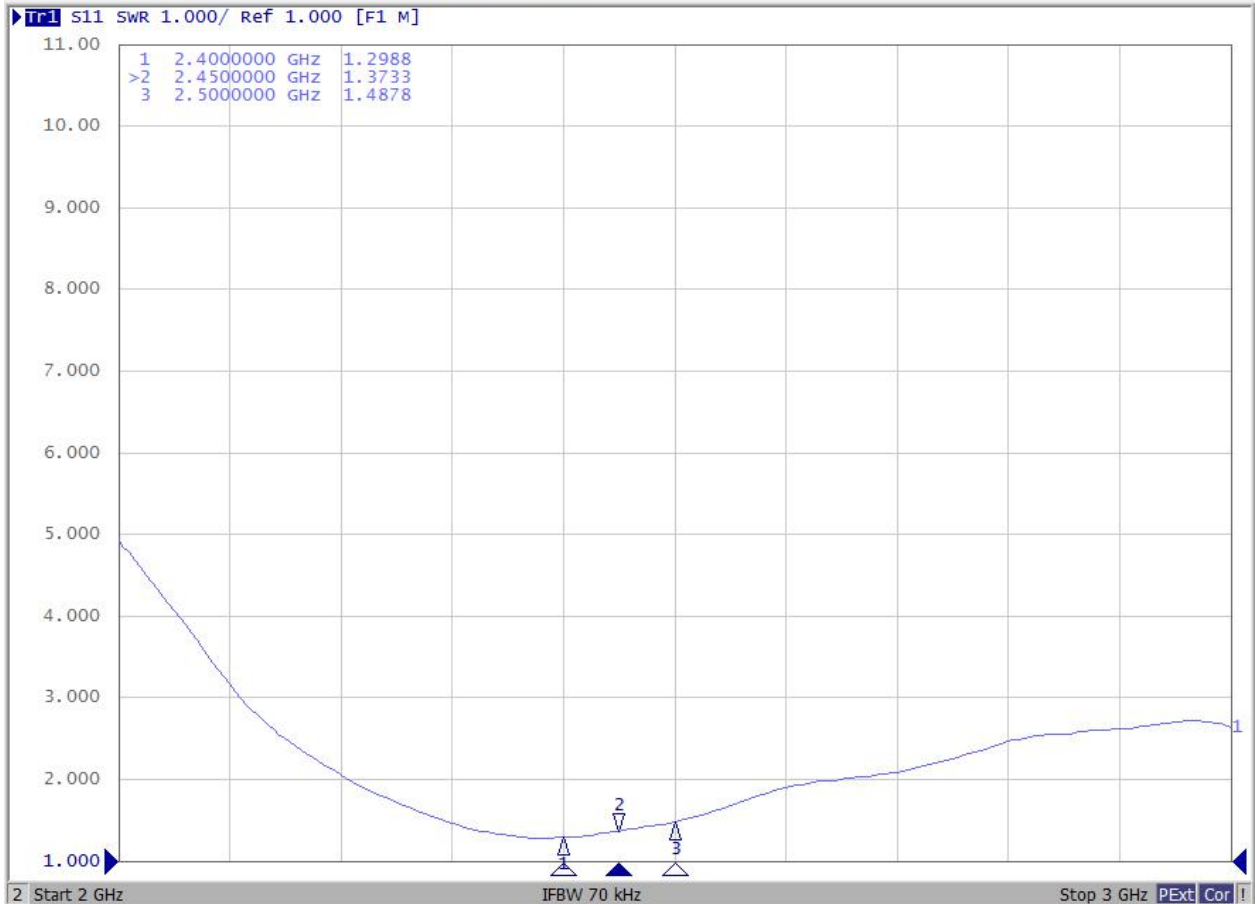
	11N	6.5M		6.5M
	Channels	TRP	Channels	TIS
1	2.412 GHz	26.02	2.412 GHz	-93.26
6	2.437 GHz	25.99	2.437 GHz	-92.75
11	2.462 GHz	25.91	2.462 GHz	-92.18

3-2 Passive Test

3-2-1 VSWR

E5071C Network Analyzer

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



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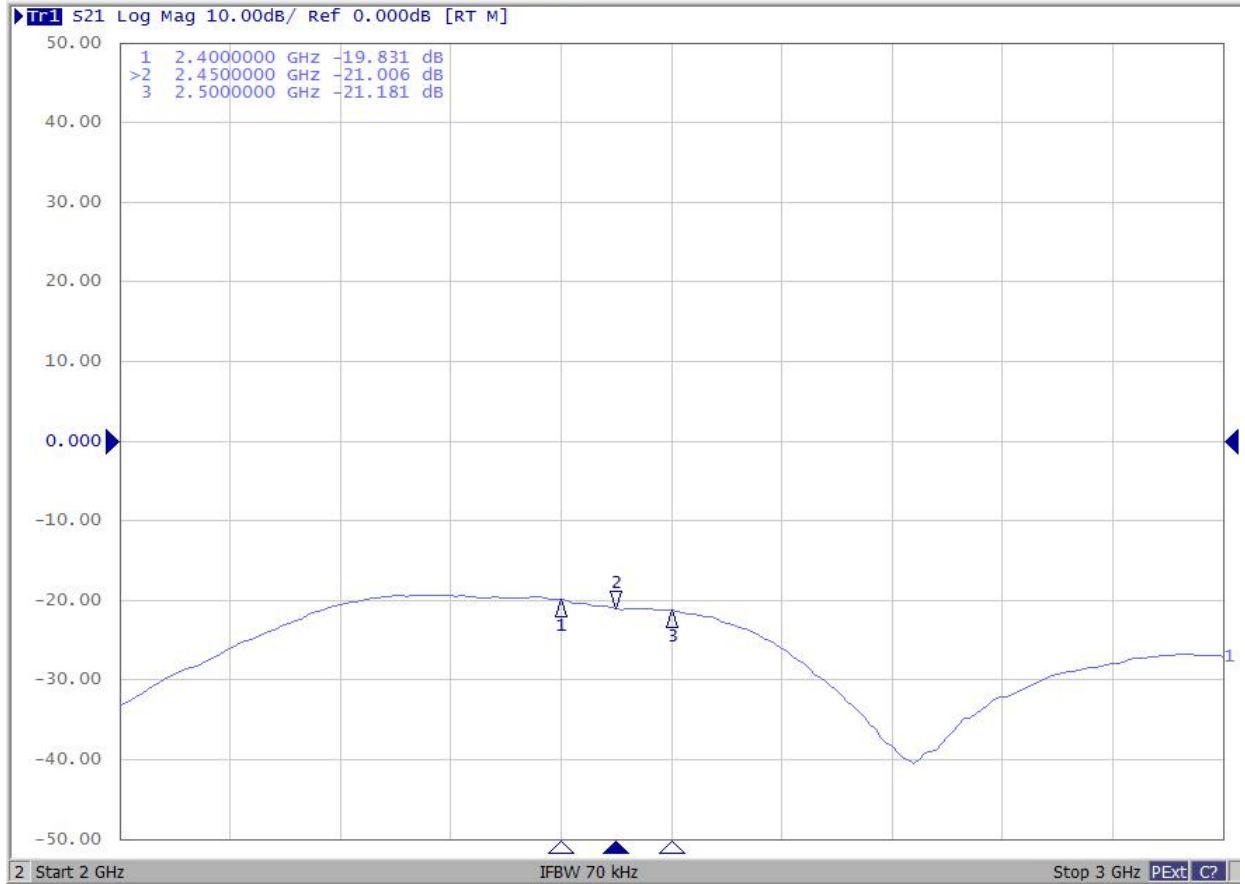
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3-2-2 Isolation

E5071C Network Analyzer

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



3-2-3 Efficiency and Gain

Frequency (MHz)	Efficiency	Efficiency.dB	Gain . dBi
2400	74%	-1.29	2.56
2410	74%	-1.30	2.73
2420	71%	-1.46	2.68
2430	74%	-1.28	2.61
2440	74%	-1.39	2.59
2450	71%	-1.48	2.58
2460	71%	-1.49	2.69
2470	70%	-1.54	2.41
2480	71%	-1.46	2.51
2490	68%	-1.67	2.44
2500	72%	-1.45	2.62

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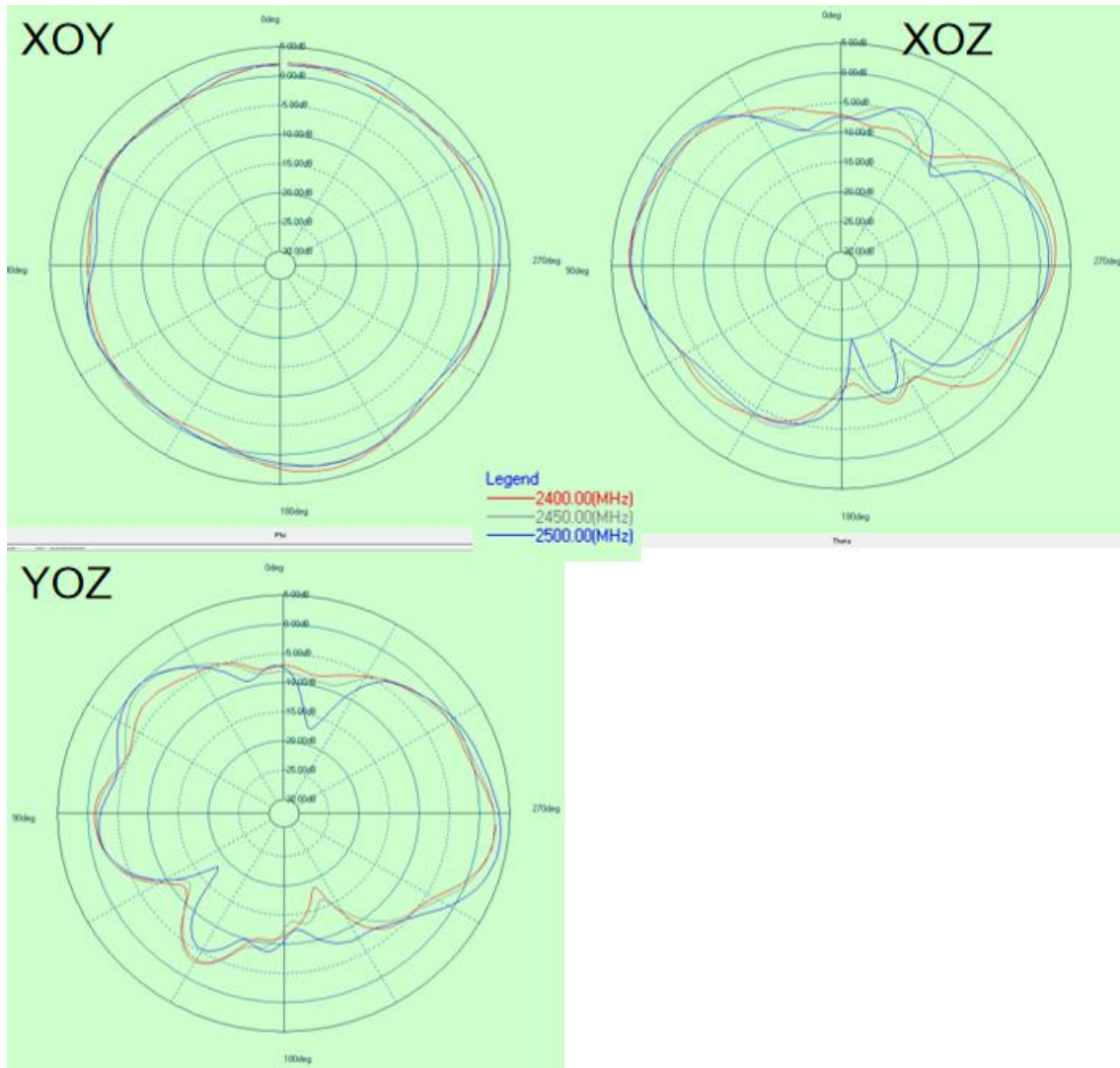
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3-2-4 2D/3D Radiation Pattern Results



3-3 Environment treatment

Please refer to ANT Report-Photo for details.

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4.Test Report

FAI

customer name	Anker	Product name	T8S10 (T810) ANT0 ASSY				Specimens quantity	10PCS								
product material	coaxial line+PCB	olor of materia	black				Date of test	2022/10/27								
Product type: <input checked="" type="checkbox"/> New shape <input type="checkbox"/> Modified shape <input type="checkbox"/> Mass production <input type="checkbox"/> Others																
NO	type	Nominal	+Tolerance	-Tolerance	Testing item										Decision	comment
					1	2	3	4	5	6	7	8	9	10		
1		180.00	2.50	2.50	180.00	180.00	179.00	180.00	180.00	180.00	180.00	180.00	179.00	180.00	OK	
2		6.00	0.30	0.30	6.04	6.09	6.00	6.05	6.07	6.02	6.03	6.08	6.01	6.06	OK	
3		3.20	0.10	0.10	3.17	3.21	3.20	3.24	3.19	3.18	3.22	3.23	3.20	3.17	OK	
4	∅	1.13	0.05	0.05	1.14	1.13	1.13	1.12	1.12	1.11	1.12	1.11	1.13	1.12	OK	
5		128.70	0.30	0.30	128.77	128.79	128.76	128.74	128.75	128.73	128.74	128.75	128.76	128.74	OK	
6		22.50	0.30	0.30	22.56	22.51	22.54	22.47	22.49	22.48	22.50	22.47	22.56	22.54	OK	
7		1.60	0.20	0.20	1.54	1.56	1.55	1.58	1.53	1.56	1.59	1.60	1.58	1.57	OK	
8																
9																
10																
11																
12																
Total judgment: <input checked="" type="checkbox"/> OK <input type="checkbox"/> NG																
ratify: XIAOHUA DENG		check: AILING YI				make: LIHUA LI										
comment:																

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测试报告 (Test Report)									
样品名称 (Product name)	ANT0 ASSY		样品型号 (Part Model)	T8S10 (T810)		环境温度 (Ambient temperature)	20±5℃	测试日期 (Date of test)	2022/10/28
样品数量 (Specimens quantity)	12PCS		客户料号 (Customer number)	A04-32002000098		相对湿度 (Relative humidity)	50-60%RH	委托单位 (Client/Dept)	quality department
测试原因 (Test reasons)	<input checked="" type="checkbox"/> New model/material verification				测试依据 (Test documentation)	<input type="checkbox"/> product drawing <input checked="" type="checkbox"/> Reference book for antenna reliability inspection <input type="checkbox"/> else:			
序号 (NO)	测试项目 (Test project)	样品数 (Samples Qty.)	测试仪器 (Test equipment)	测试条件与要求 (Test condition and note)	测试结果 (Test result)	结论 (Conclude) (Pass/Fail)	样品图片/实测值 (Sample picture/measured value)		
1	Salt Spray Test	3	Salt spray testing machine	Conditions: 1. Place the product in the test chamber at 30 ±5 ° 2. Adjust the parameters of the test chamber: NaCl (no water); Concentration 5%±1%; pH value: 6.5 ~ 7.2; Laboratory temperature: 32-38℃; Compressed air pressure :1.0±0.01 (KG/M2) spray volume :1.0 ~ 2.0ML/80CM2/H. Relative humidity :85%±2%; Test product placement Angle :30 degrees +/-10 degrees 3. The storage time is 48 hours. 4. After cleaning, place in room temperature for 2 hours for observation Requirements: plating (coating) layer without falling off, foaming, corrosion, oxidation and other adverse phenomena; The surface of the product shall not have rust spots and other undesirable phenomena	No coating shedding and oxidation occurred.	Pass			
2	high temperature test	3	High and low temperature alternating humidity and heat test chamber	1. Put the sample into a high temperature environment of 85 °C for 48 hours and take it out 2. Store at room temperature for 2 hours.	After the test, the product has no deformation, no discoloration, no warping, no falling off, and the electrical function is intact	Pass			
3	low temperature test	3	cryogenic refrigerator	1. Put the sample into a low temperature -40 °C environment for 48 hours and take it out 2. Store at room temperature for 2 hours.	After the test, the product has no deformation, no discoloration, no warping, no falling off, and the electrical function is intact	Pass			
4	High temperature and high humidity storage test	3	High and low temperature alternating humidity and heat test chamber	1. Sample 3pcs 2. Put the test sample in the test chamber (temperature 70±2℃, humidity 90% ~ 95%RH), and take it out for inspection after 48H.	After the test, the product has no deformation, no discoloration, no warping, no falling off, and the electrical function is intact	Pass			
备注(Comments):									
核准(Approved by): XIAOHUA DENG			审核(Checked by): AILING YI			测试(Name of operator): LIHUA LI			

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5.The packing way

SOP		Version	Operation serial number / name	Working Hours (S)	Document number	Instrument calibration and requirements:	
AI	SOP	/	ZTX-QD-WI-ASSY-385			1. The test equipment must be grounded; 2. After reconnecting the interface or when the connection test is unstable, the instrument shall be corrected; 3. When testing the products, ensure that the antenna is suspended and over 30cm away from the human body or metal devices.	
作业方法 作业参数 (自检验工序作业合格后,方能流入下一道工序) 1. Every 50pcs product with rubber band bandage, every (50pcs) product with PE open pocket book pin packaging, stick small labels, fill in the product name, material number, quantity, cycle and other information; 2. Put the independently packaged products. Every 6 bags into the (330 * 230mm) PE glue bag good PE bags (300PCS), affixed with small labels, fill in the product name, material number, quantity, cycle and other information; 3. Boatings, carton specifications (45 * 32.5 * 21cm), cardboard interval, 20 bags per box, except for the end of each box (3000pcs), and attached with an inspection report; 4. The label is posted on the upper right corner of the outer box, and the content of the outer label shall be subject to customer requirements; 5. Seal the labeled boxes with tape in "gong" type.							
Operational protection requirements: 1. Operators should wear finger covers for operation, (special products with cotton gloves); 2. Take the testing products lightly during the testing process; 3. When operating and testing the treatment tools, use them in strict accordance with the operation specifications to avoid hand injury.							
6S Requirements: 1. Keep the test site table clean, free of dust, water and oil; 2. Materials are neatly placed and clearly marked.							
Note: 1. Whether the customer material code and quantity are correct, the label must be printed by machine; 2. Internal label, outside label, shipping report and delivery note should be consistent; 3. If the trial production materials or change, the corresponding identification, the mantissa box should be affixed with the mantissa identification, and the inspection report should be attached							
name of material	Material code	dosage	remark				
pearl wool							
elastic							
label							
PE open the pocket	1. 12. 000030	240*160*0.05mm	1/50				
PE seal pocket	1. 12. 000023	330*230*mm	1/300				
cardboard	1. 13. 000003	42*30cm	1/1500				
carton	1. 12. 000086	45*32.5*21cm	1/3000				
version	Revised content		Revised date	Revised			
AI	The first edition was released		2022/11/4	HENGFENG XIANG			
Formulate	HENGFENG XIANG	Auditing	AILING YI	Ratify			FEIFEI DANG



Figure 1: Product picture

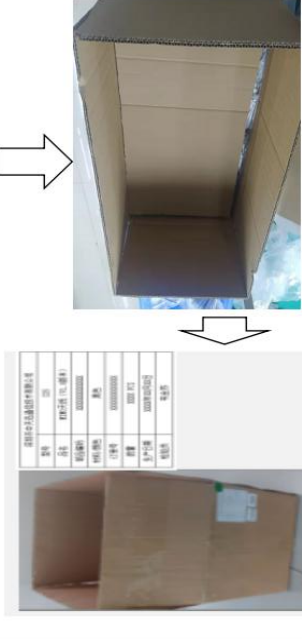


Figure 2: Seal PE bag packaging / labeling (picture for reference)

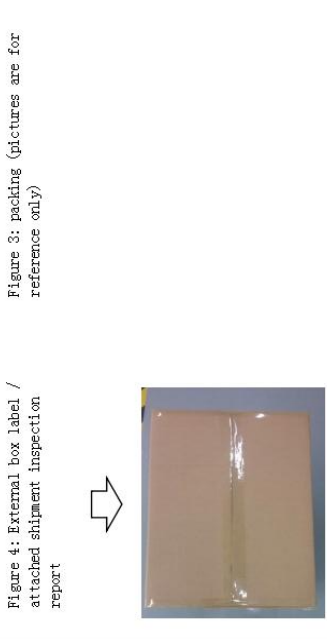


Figure 3: Packing (pictures are for reference only)



Figure 4: External box label / attached shipment inspection report



Figure 5: Seal the box