

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	YI QING. LIN	

ZTX 中天迅

Shenzhen ZTX Communication Technology Co., Ltd

Add: NO.34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province, China

Code: 518000

Tel: 0755-27588320

Fax: 0755-27588045

<http://www.chinaztx.com>

ANTENNA SPECIFICATION

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

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Revision history

Rev	Date	Description
A1	2022-12-01	FIRST ISSUE

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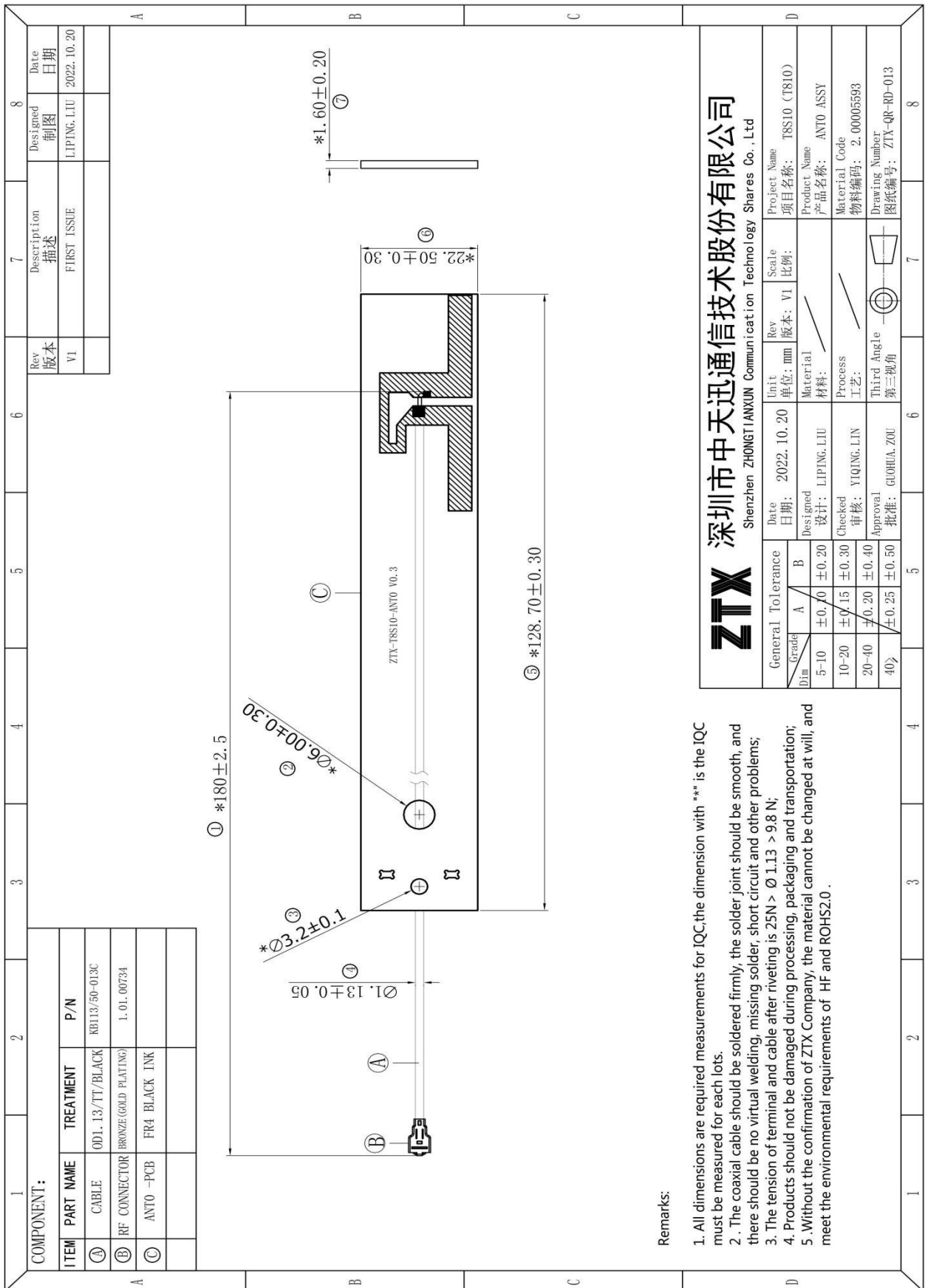
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1. Mechanical Specification

1-1 Mechanical Configuration (T8S10 ANT0 ASSY)



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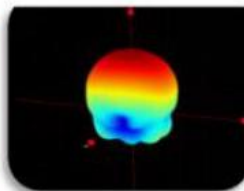
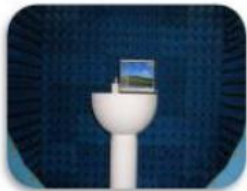
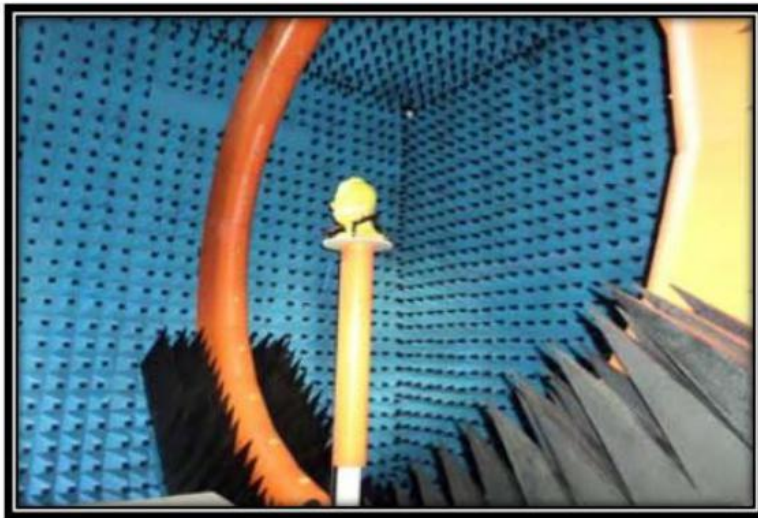
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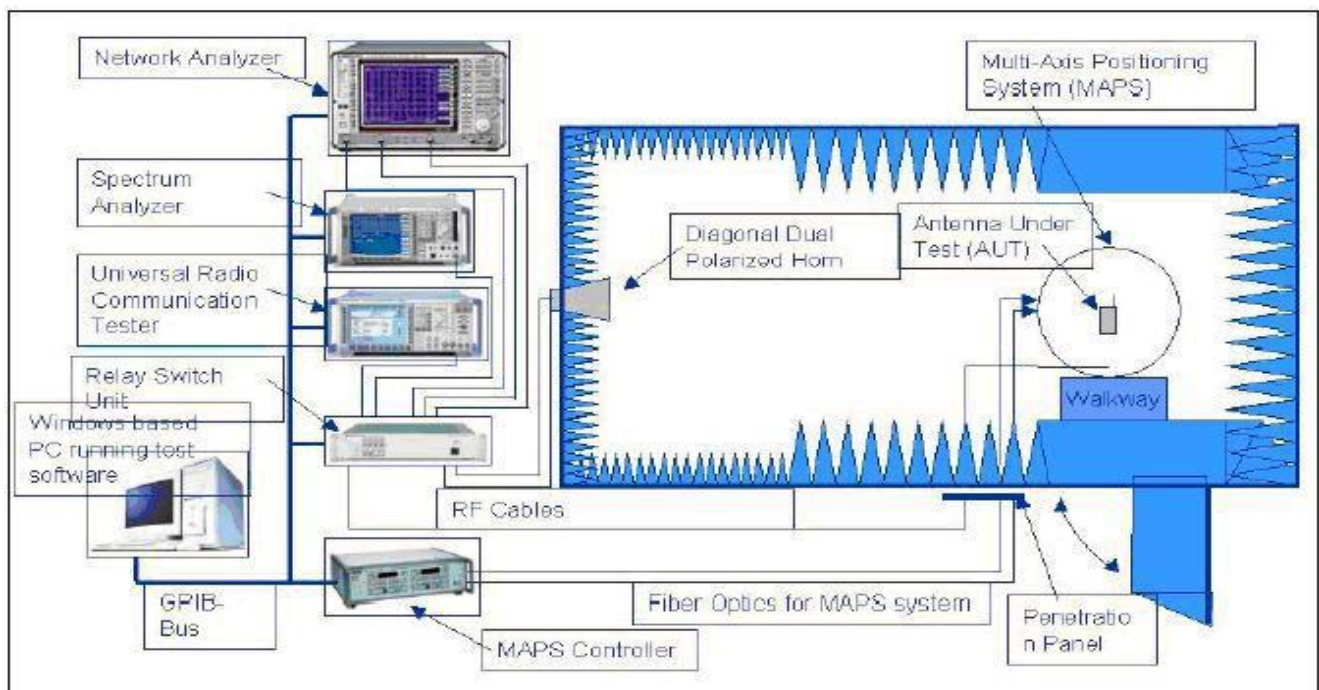
2.Test equipment



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 within0.4-6G.



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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

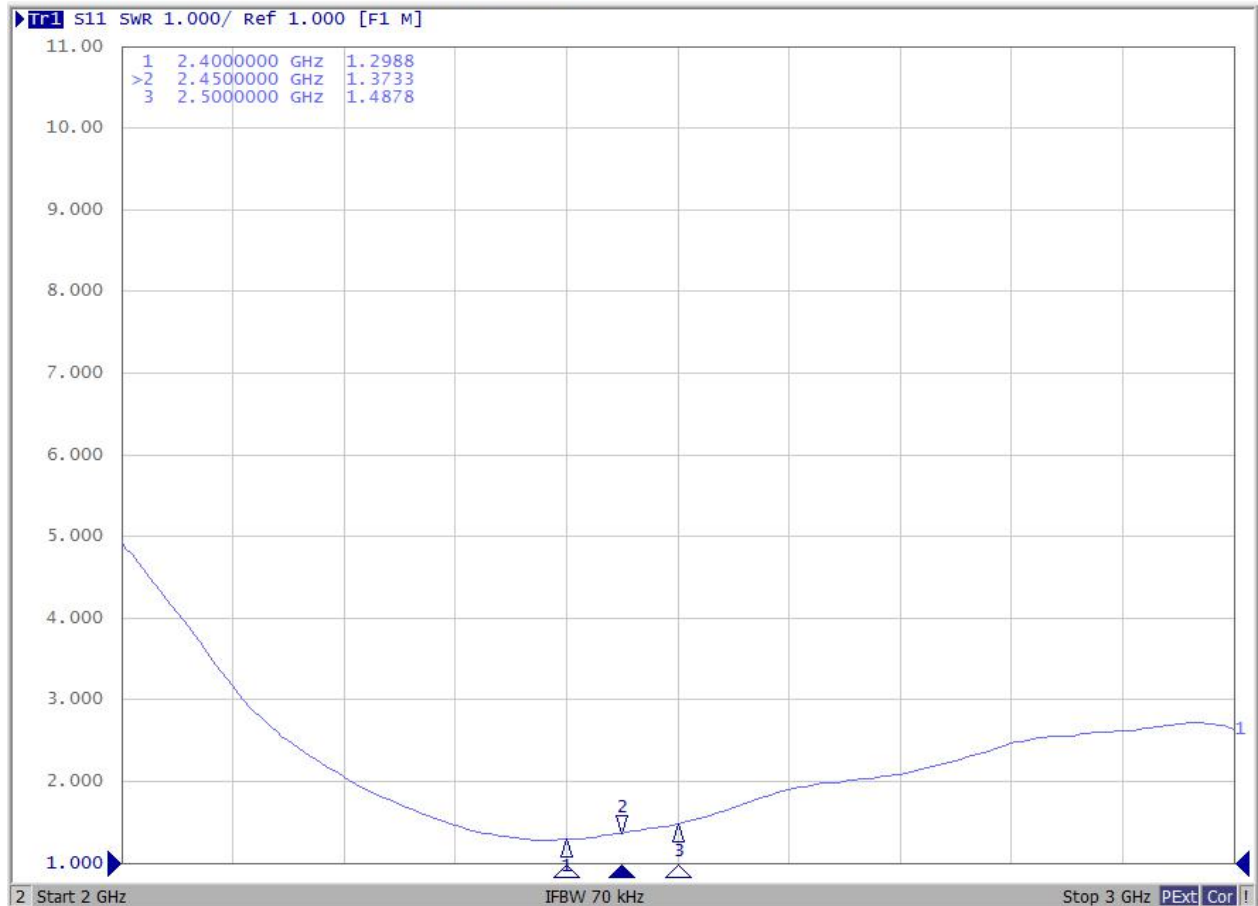
	11N	6.5M		6.5M
	Channels	TRP	Channels	TIS
1	2.412 GHz	26.02	2.412 GHz	-93.26
6	2.437 GHz	25.99	2.437 GHz	-92.75
11	2.462 GHz	25.91	2.462 GHz	-92.18

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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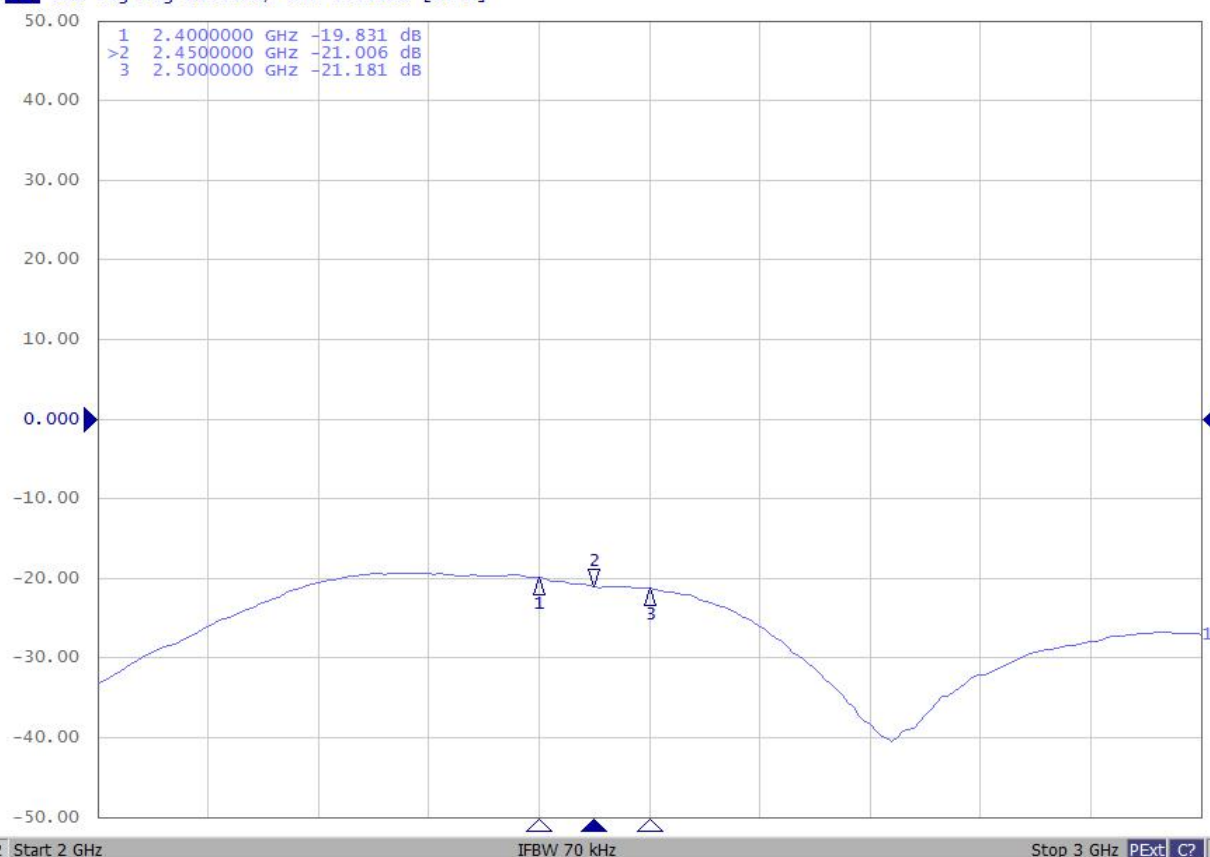
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3-2-2 Isolation

E5071C Network Analyzer

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

Tr1 S21 Log Mag 10.00dB/ Ref 0.000dB [RT M]



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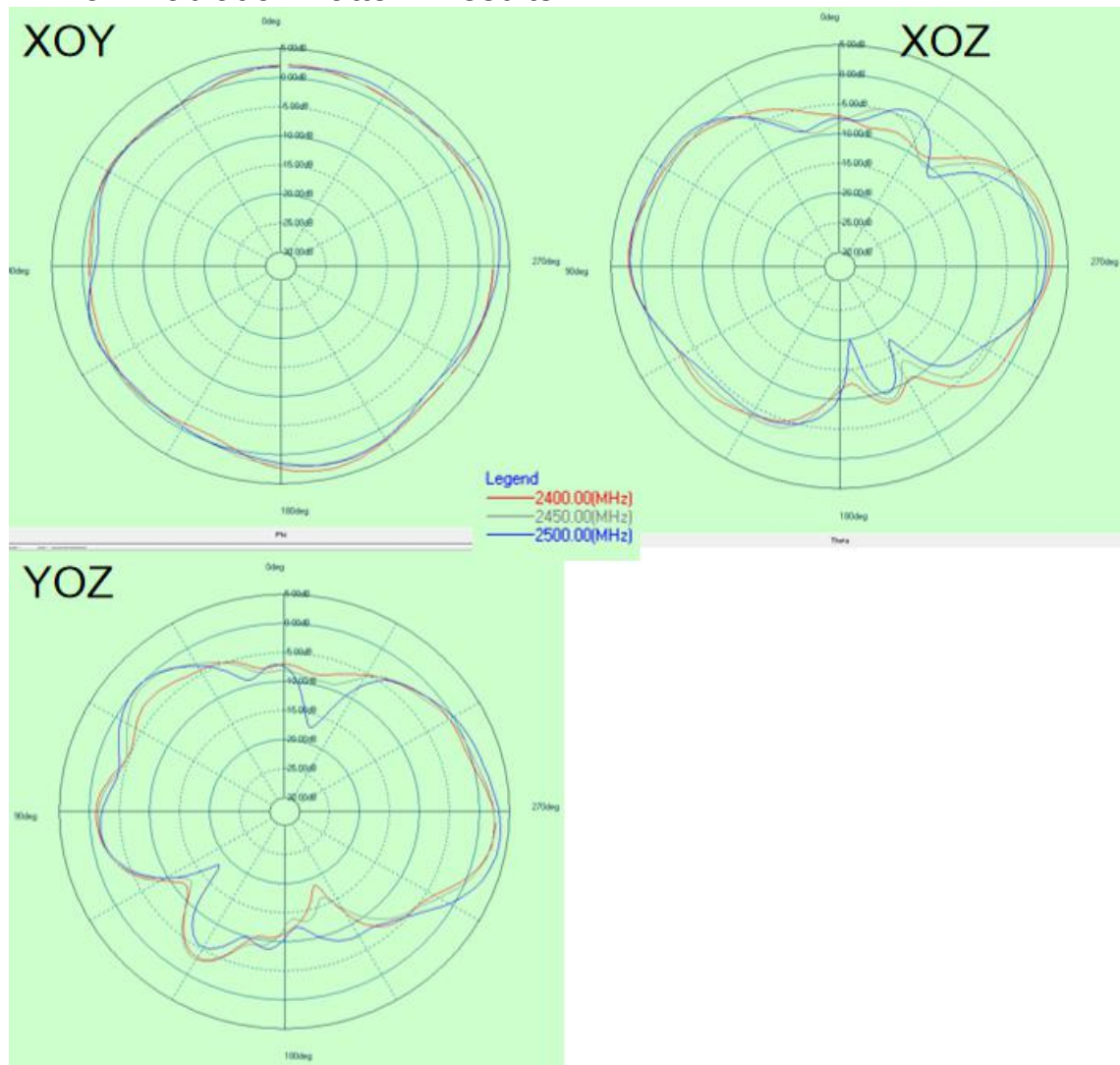
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3-2-4 2D/3D Radiation Pattern Results



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 material	black		Date of test	2022/10/27									
Product type: ☒ New shape ☐ Modified shape ☐ Mass production ☐ 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	Ø	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: ☒ OK ☐ 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)	☒ New model/material verification					测试依据 (Test documentation)	☐ product drawing ☒ Reference book for antenna reliability inspection ☐ 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

Product model

T8S10 (T810)

Product name

ANT0 ASSY

Version

A1

Operation serial number / name

SOP

Working Hours (S)

/

Document number

ZTX-QD-WI-ASSY-385

Instrument calibration and requirements:

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.

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.

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 blue bag good PE bags (300PCS), affixed with small labels, fill in the product name, material number, quantity, cycle and other information;
3. Boating, 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.

Sampling and bagging labeling

↓

Bags and labels

↓

enclache

↓

Attach the box label with the report

↓

Seal the box

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



name of material

pearl wool

elastic

label

PE open the pocket

PE seal pocket

cardboard

carton

version

Material code

1. 12. 000030

1. 12. 000023

1. 13. 000003

1. 12. 000036

dosage

240*160*0. 05mm

330*230*mm

42*30cm

45*32. 5*21cm

remark

1/50

1/300

1/1500

1/3000

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

Revised content

The first edition was released

Revised date

2022/11/4

Revised

HENG FENG XIANG

Formulate

HENG FENG XIANG

Ailing Yi

Ratify

FEI FEI DANG



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

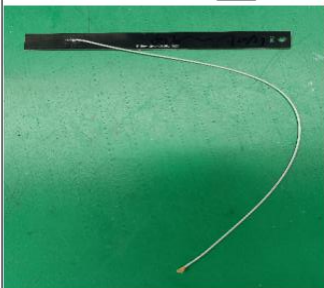


Figure 1: Product picture

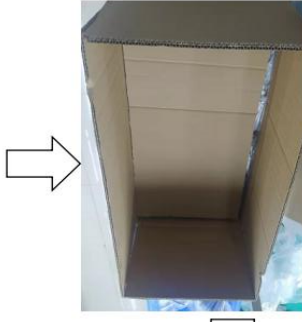


Figure 3: packing (pictures are for reference only)



Figure 4: External box label / attached shipment inspection report



Figure 5: Seal the box