

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)	ANT1 ASSY	
FREQUENCY(频率)	2400~2500MHz	
ZTX NO.(物料编号)	2.00005594	A04-32002000099
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	

 ZTX 中天迅

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ANTENNA SPECIFICATION

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Revision history

Rev	Date	Description
A1	2022-12-01	FIRST ISSUE

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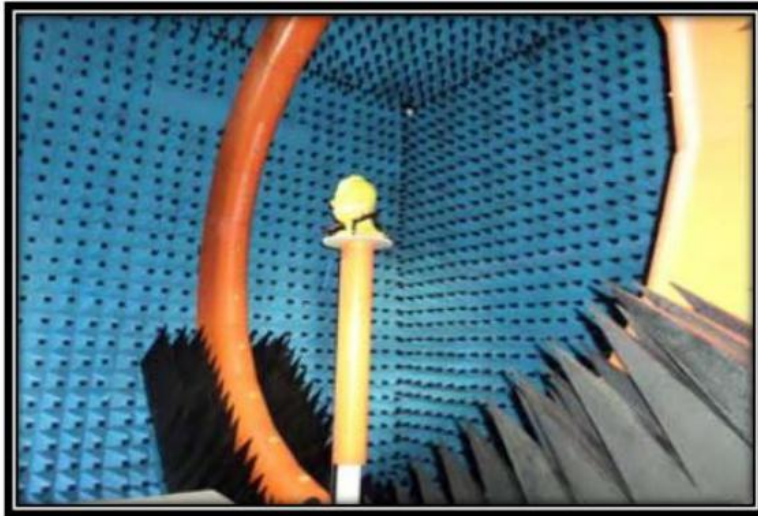
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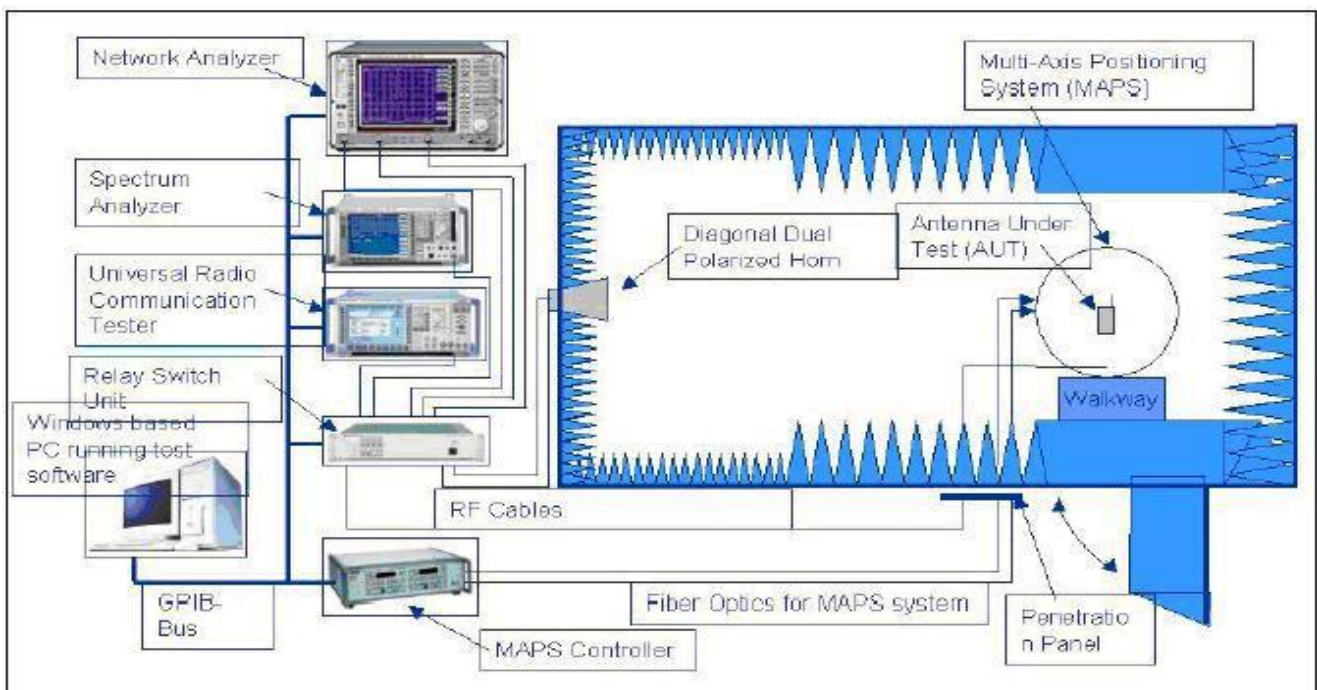
2.Test equipment



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

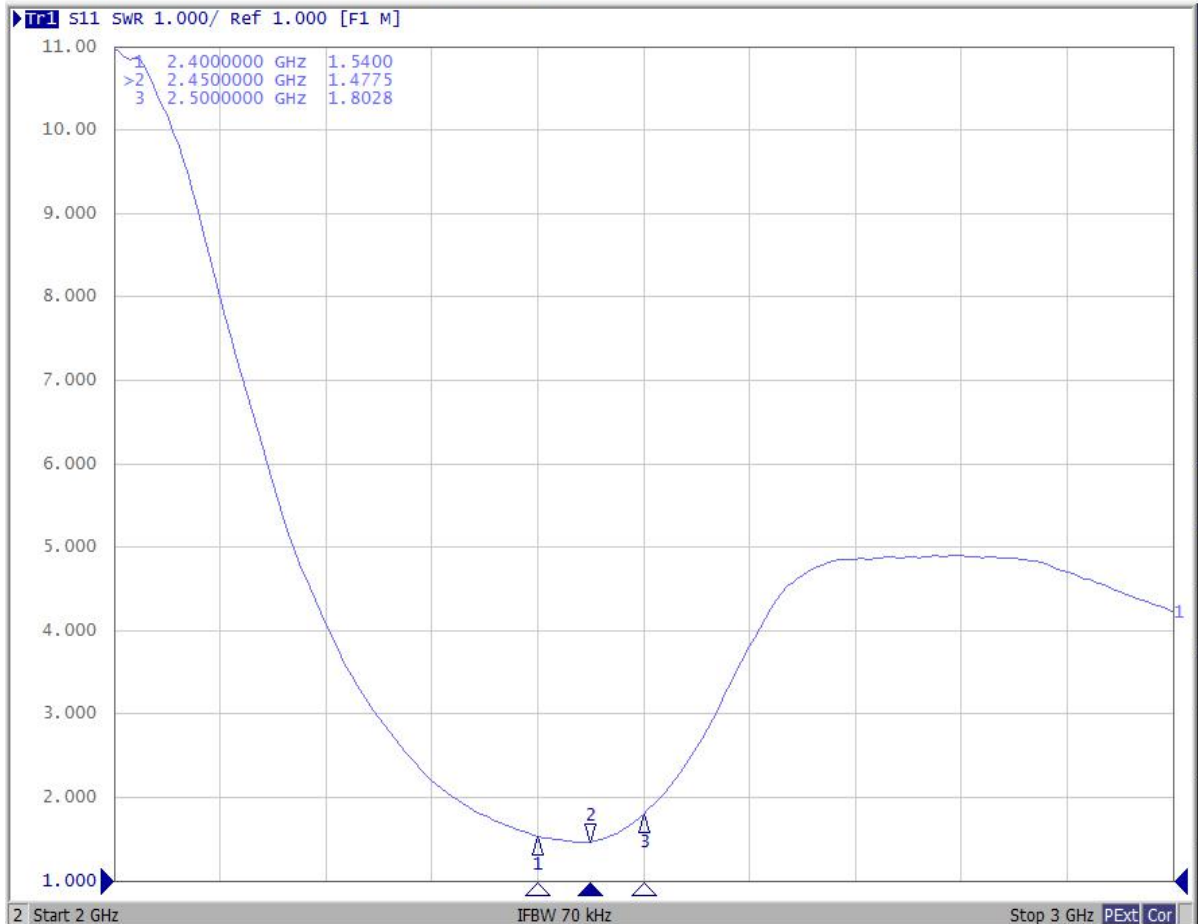
	11N	6.5M		6.5M
	Channels	TRP	Channels	TIS
1	2.412 GHz	26.02	2.412 GHz	-93.26
6	2.437 GHz	25.99	2.437 GHz	-92.75
11	2.462 GHz	25.91	2.462 GHz	-92.18

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



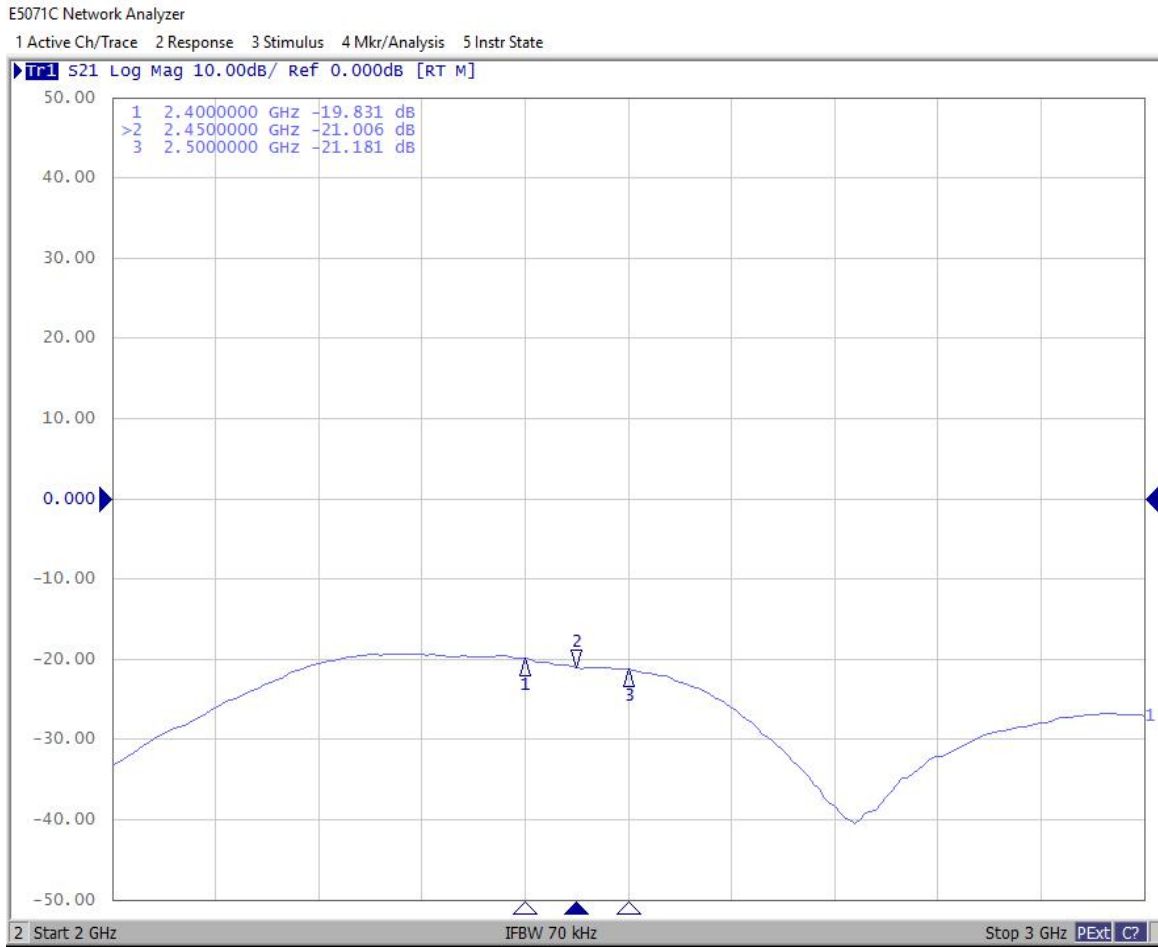
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3-2-2 Isolation



3-2-3 Efficiency and Gain

Frequency (MHz)	Efficiency	Efficiency.dB	Gain . dBi
2400	62%	-2.10	2.40
2410	61%	-2.18	2.45
2420	61%	-2.14	2.46
2430	62%	-2.08	2.41
2440	62%	-2.10	2.34
2450	59%	-2.32	2.20
2460	59%	-2.29	2.18
2470	58%	-2.35	2.56
2480	59%	-2.31	2.72
2490	56%	-2.51	2.95
2500	58%	-2.35	2.79

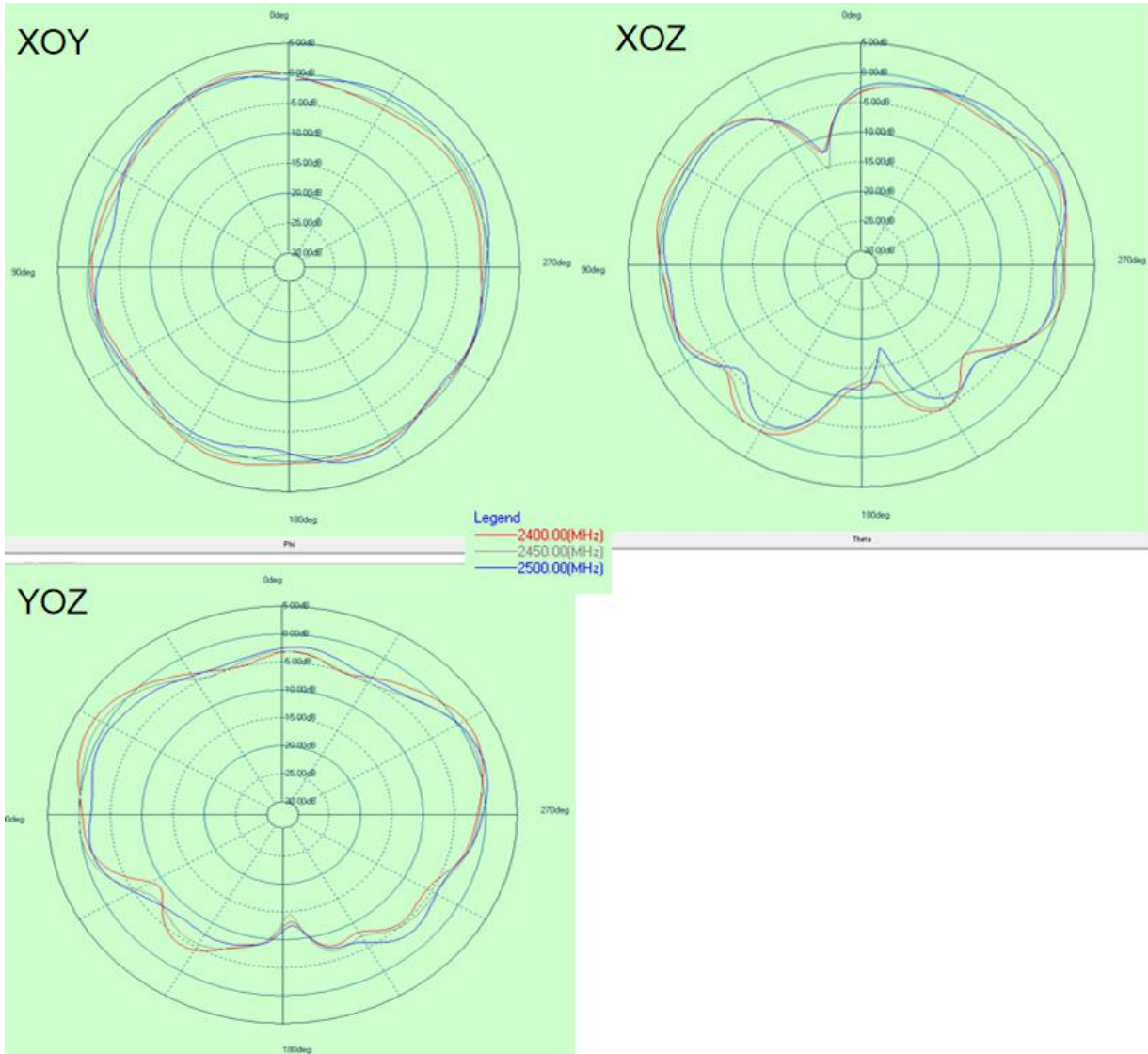
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3-2-4 2D/3D Radiation Pattern Results



3-3 Environment treatment

Please refer to ANT Report-Photo for details.

4.Test Report

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FAI

customer name		Anker			Product name		T8S10 (T810) ANT1 ASSY				amount		10PCS			
product material		coaxial line+PCB			Color of material		gray				date		2022/10/27			
product type: <input checked="" type="checkbox"/> New appearance product <input type="checkbox"/> Modified shape product <input type="checkbox"/> Production <input type="checkbox"/> Product style																
NO	type	Required size	+Tolerance	-Tolerance	measured size										Decision	comment
					1	2	3	4	5	6	7	8	9	10		
1		128.70	0.30	0.30	128.74	128.69	128.74	128.76	128.75	128.78	128.77	128.70	128.72	128.68	OK	
2	ø	1.13	0.05	0.05	1.12	1.12	1.11	1.12	1.13	1.12	1.13	1.12	1.12	1.11	OK	
3		265.00	2.00	2.00	265.00	265.00	265.00	265.00	265.00	265.00	265.00	265.00	265.00	265.00	OK	
4		13.00	0.30	0.30	13.07	13.05	13.11	13.09	13.06	13.08	13.08	13.12	13.10	13.07	OK	
5		1.60	0.20	0.20	1.55	1.57	1.64	1.60	1.58	1.59	1.60	1.55	1.56	1.54	OK	
6		3.20	0.10	0.10	3.19	3.18	3.22	3.24	3.20	3.22	3.19	3.24	3.23	3.21	OK	
7																
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)	ANT1 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)	12PCS		客户料号 (Customer number)	A04-32002000099		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			

5.The packing way

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SOP			
Product model	Product name	Version	Operation serial number / name
T8S10 (T810)	ANT1 ASSY	A1	SOP
			Working Hours (S) /
			Document number
			ZTX-QD-WI-ASSY-386
<p>Instrument calibration and requirements:</p> <ol style="list-style-type: none"> The test equipment must be grounded. After reconnecting the interface or when the connection test is unstable, the instrument shall be corrected. When testing the products, ensure that the antenna is suspended and over 30cm away from the human body or metal devices. 			
<p>Operational protection requirements:</p> <ol style="list-style-type: none"> Operators should wear finger covers for operation, (special products with cotton gloves). Take the testing products lightly during the testing process. When operating and testing the treatment tools, use them in strict accordance with the operation specifications to avoid hand injury. 			
<p>6S Requirements:</p> <ol style="list-style-type: none"> Keep the test site table clean, free of dust, water and oil. Materials are neatly placed and clearly marked. 			
<p>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</p>			
			dosage
			remark
name of material	Material code		
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
A1		The first edition was released	2022/11/4
Formulate	HENG FENG XIANG	Auditing	AILING YI
		Ratify	HENG FENG XIANG
			FEI FEI DANG



Figure 1: Product picture



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

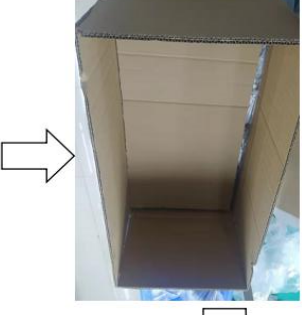


Figure 3: packing (pictures are for reference only)



Figure 4: External box label / attached shipment inspection report



Figure 5: Seal the box