

深圳市景松科技有限公司

Shenzhen JINGSONG Technology Co., LTD

Product specification recognition letter

Product name: 27Inch cloud photo
PRODUCT NAME frame

Customer's name: Bo Shite

CUSTOMER NAME Customer material number:

MATERIAL CODE

Jingsong material number:023-050-1A. Number

023-050-1B



.Customer	Shenzhen Jingsong Technology Co., Ltd.			
Customer's confirmation	Articl e Nature	Grind Launch Part	Bear Form	Stone Standa rd
Date: Year Moon Sun	Date: 2024 Year 08 Moon 27 Sun			

Shenzhen Jingsong Technology Co., Ltd.

Shenzhen Jingsong Technology Co.,LTD

Address:Huaning Road, Dalang Street, Longhua District, Shenzhen 118 No.
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than one storey **B**.District elevator

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拟定	阳形运	深圳市景松科技有限公司	版本	A
发文部门	研发部	深圳市景松科技有限公司	发行日期	24.07.04

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1.Aim

.Standardize the product specifications and test methods of the mobile communication terminal antenna produced by Shenzhen Jingsong Technology Co., Ltd. to avoid errors caused by different test conditions and methods.

Two.Overview of product categories and models

2.1 Overview of product models

This report mainly outlines27Inch cloud photo frameThe electrical results of the antenna designed by the project. The design frequency band of this antenna is: BT. : Two. 4G/2. 4GWIFI/5. 8GWIFISection.

3.Basic parameters and experimental equipment description

3.1 Basic parameters

Product electrical performance index	
Operating frequency range	2400 to 2500 MHz 5100-5800 MHz
Stationary Bobby	2400-2500 MHz: < 1.5 5100-5800 MHz. : <1.5
Antenna gain	2400-2500 MHz: 1dBi ± 0.5dBi 5100-5800 MHz: 1.5dBi±0.5dBi
Radiation efficiency	2400-2500 MHz: > 50% 5100-5800 MHz:>50%
. Impedance	50 ohm
Description of product materials	
FPC.	Coaxial line
Product environment description	
Working temperature	- 30℃ ~ + 85℃
Storage temperature	- 30℃ ~ + 85℃

3.2 Description of experimental equipment

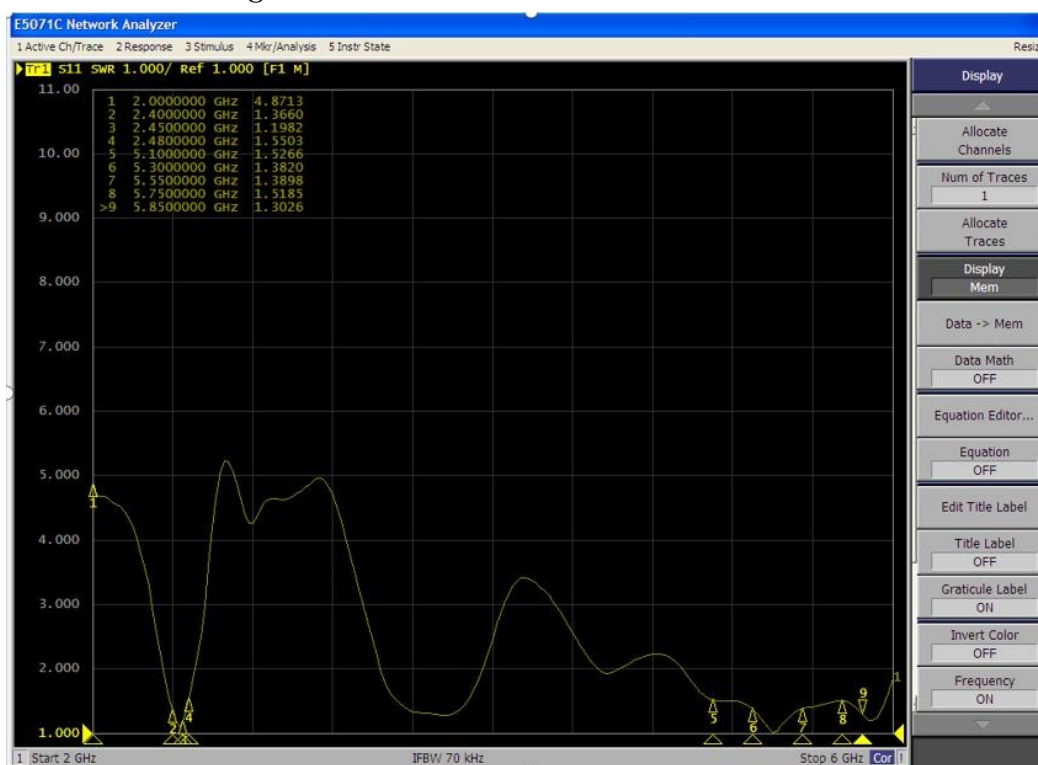
List.	Testing project.	Equipment.
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1. S Parameters.	1. Return loss. Two. VSWR at	Network analyzer: Agilent 8753ES.
Two. Coupling power test	1. Transmission power 2. Receiving sensitivity	Comprehensive tester: Agilent 8960. E5515C.
3. Radiation pattern and gain	1. Radiation pattern 2. Antenna gain.	1. Darkroom.: 7x4x3 m (3D) 2. Network analyzer :Agilent. 8753ES.

4.1 WiFi. Antenna standing wave ratio

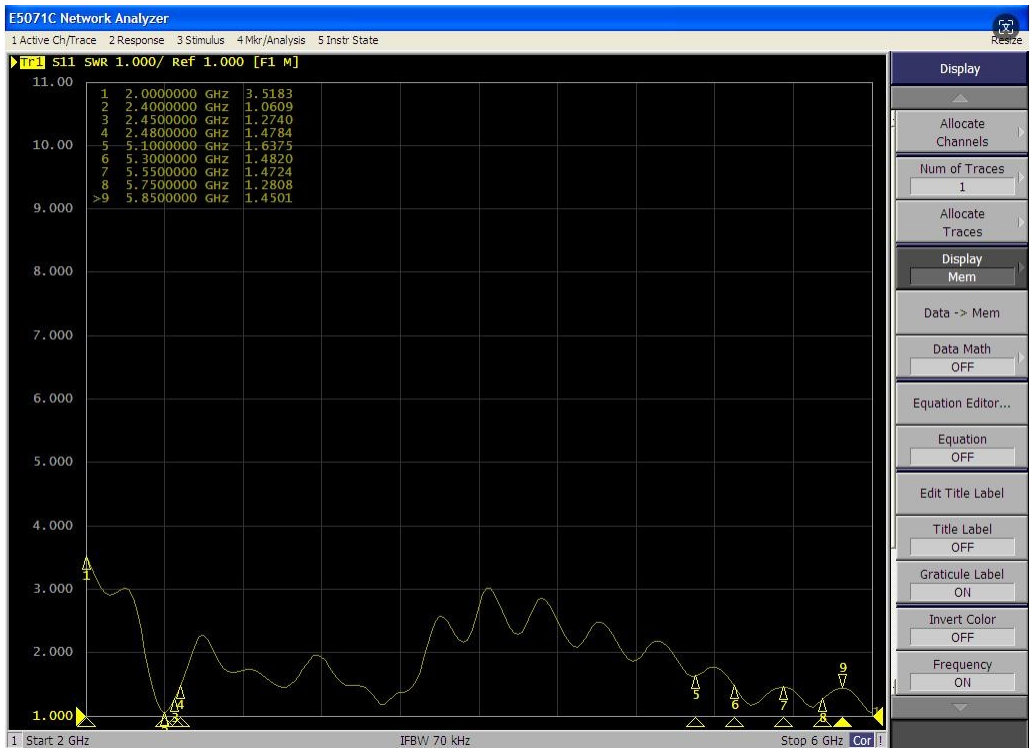


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4.2 BT Antenna stationary wave diagram



5.1WiFi. .Aerial2.4 G Passive data

Wi-FiTest data:		
Wi-Fi 2.4 G		
Freq (MHz)	Efficiency (%).	Gain (DBi)
2400	50.2	1.52
2410	50.3	1.56
2420	51.2	1.53
2430	50.4	1.58
2440	50.6	1.61
2450	50.6	1.62

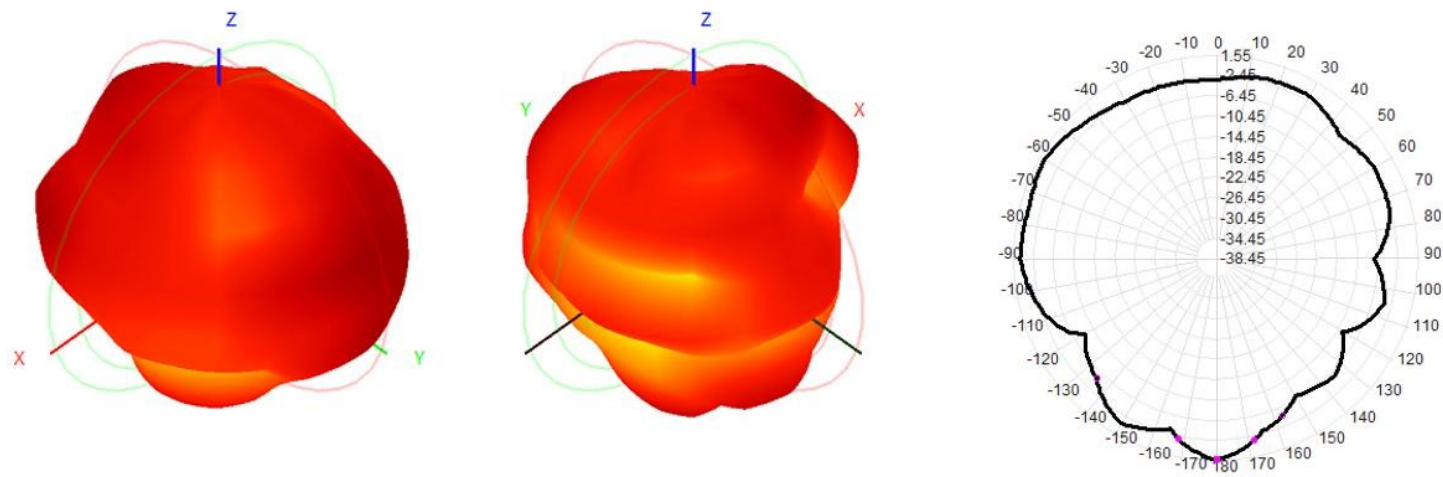
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2460	50.2	1.57
2470	50.4	1.54
2480	50.6	1.56

5.2WiFi 2.4 Direction map



5.3WiFi. .Aerial5G. Passive data

Wi-FiTest data:		
WIFI: 5.8 G		
Freq (MHz)	Efficiency (%).	Gain (DBi)
5150	57.3	1.82
5200	56.3	1.77
5250	58.4	2.04
5300	56.2	1.78
5350	56.4	1.77
5400	56.2	1.66
5450	57.6	1.72
5500	57.8	1.79
5550	58.2	2.07

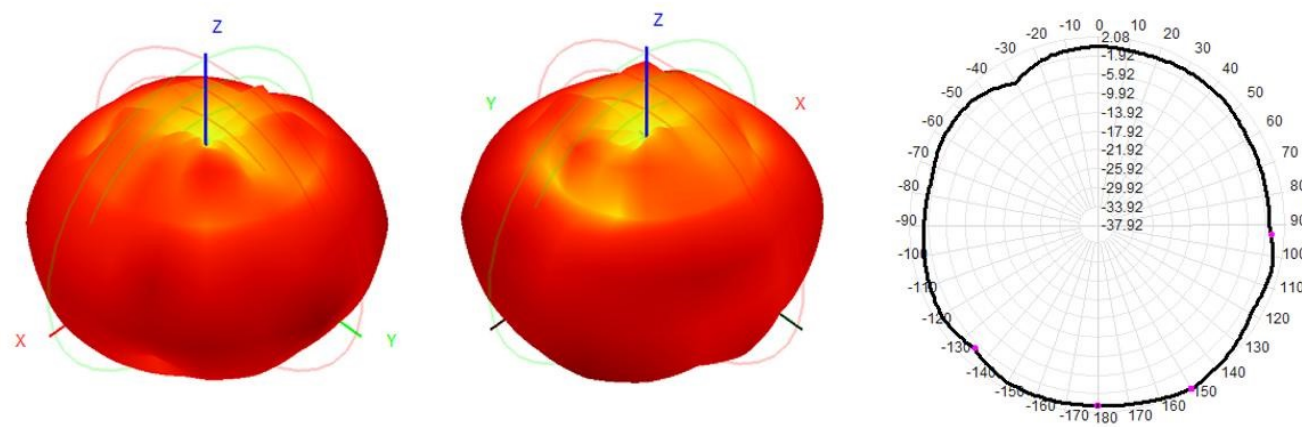
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5600	56.6	1.75
5650	57.8	2.04
5700	58.1	2.08
5750	57.6	2.87
5800	57.8	2.86
5850	56.8	1.77

5.4WiFi 5G Direction map



5.5 BT. Antenna passive data

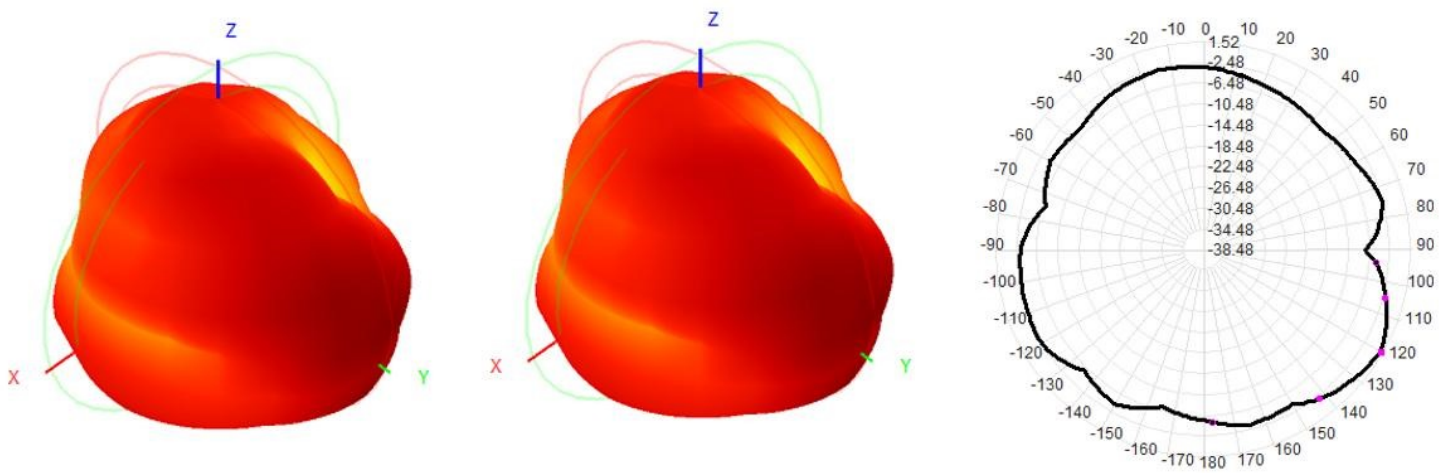
Wi-FiTest data:		
Wi-Fi 2.4 G		
Freq (MHz)	Efficiency (%).	Gain (DBi)
2400	50.1	1.52
2410	50.2	1.53
2420	50.6	1.51
2430	50.4	1.51
2440	50.2	1.51

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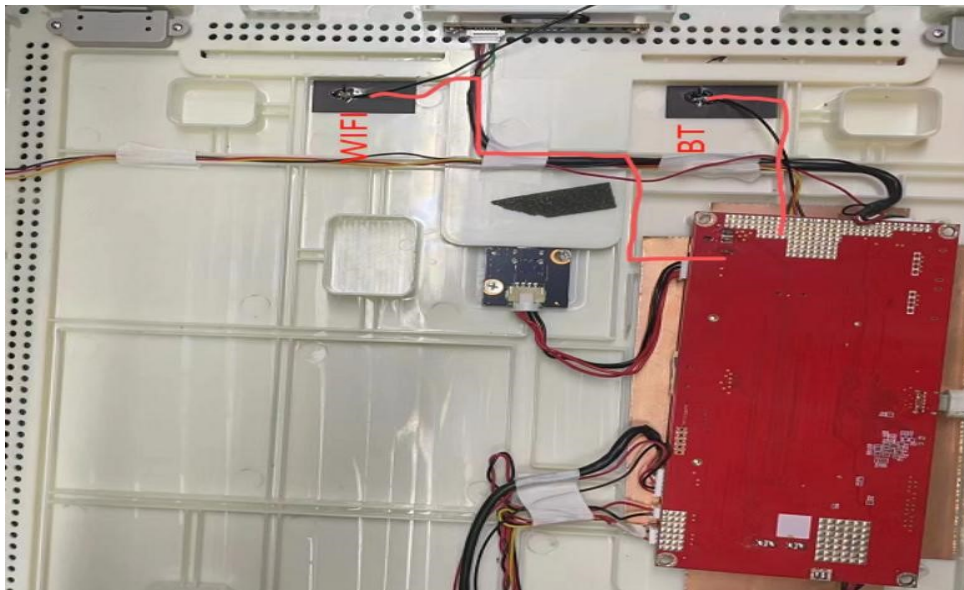
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2450	50.7	1.54
2460	50.2	1.52
2470	50.1	1.51
2480	50.2	1.53

5.6BT. Direction map



6.1 .Antenna assembly diagram



7.1 Active data

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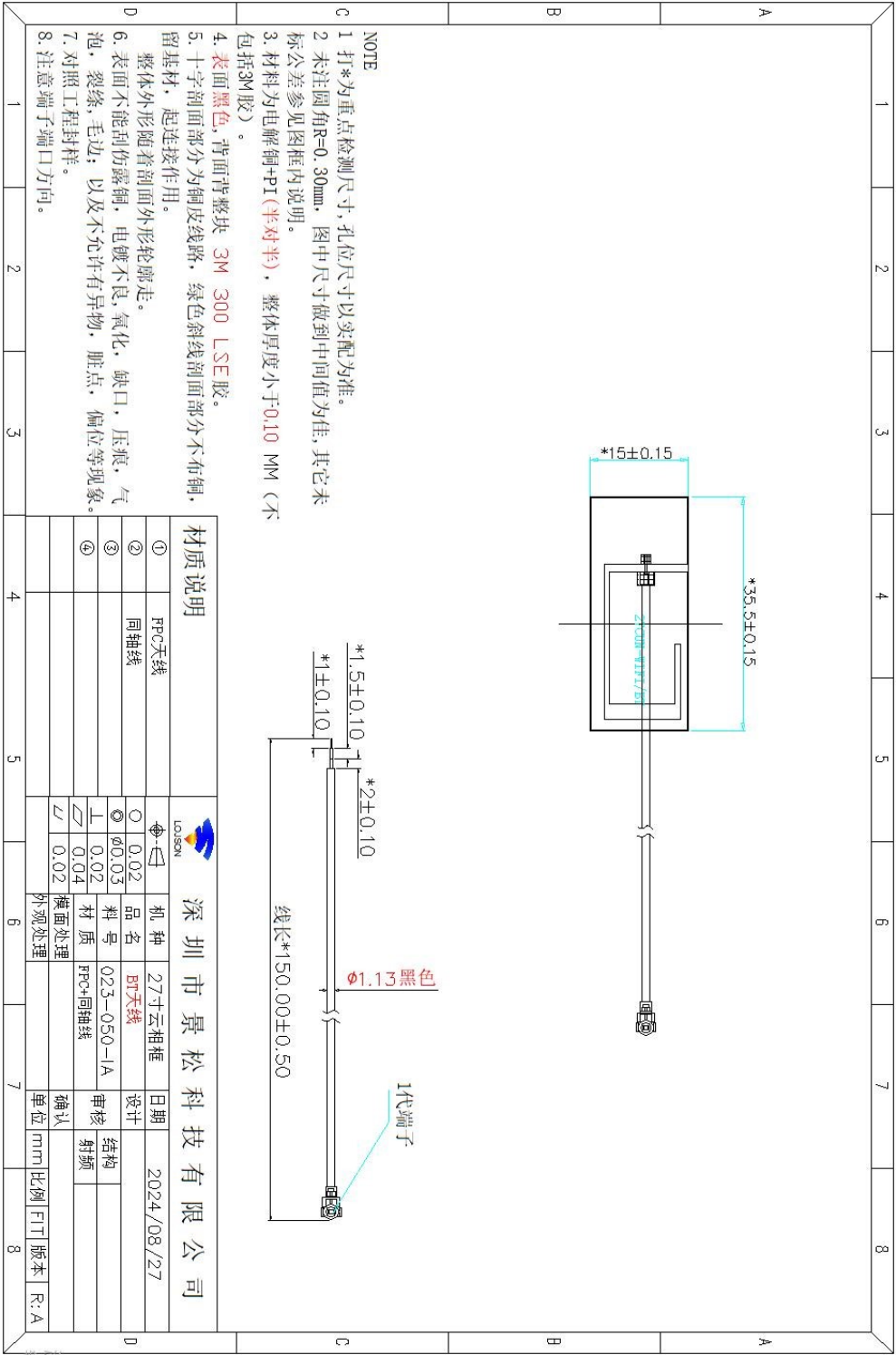
天线测试报告	802. 11B Antenna Performance Table			802. 11G Antenna Performance Table		
Channel	CH 1	CH 6	CH11	CH 1	CH 6	CH 11
Max Power (dBm)	19.3	19.8	19.4	18.3	19.2	18.7
TRP(dBm)	16.3	16.8	16.7	15.3	16.8	15.4
Sensitivity(dBm)	-84.9	-84.3	-84.5	-73.6	-72.8	-72.1
TIS(dBm)	-81.3	-81.4	-80.6	-70.3	-69.5	-69.8
天线测试报告	802. 11N Antenna Performance Table			802. 11A Antenna Performance Table		
Channel	CH 1	CH 6	CH11	CH149	CH157	CH165
Max Power (dBm)	15.3	16.4	16.8	16.2	16.3	15.4
TRP(dBm)	12.8	13.8	13.4	13.6	13.4	12.8
Sensitivity(dBm)	-68.3	-67.2	-68.9	-72.6	-73.1	-72.3
TIS(dBm)	-65.8	-64.2	-65.1	-69.3	-70.3	-69.4

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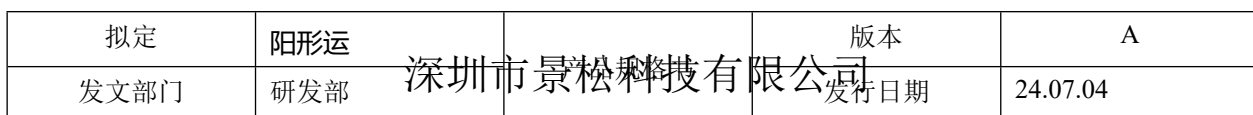
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8.1 Product2D. Structure diagram and remarks



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9.1 Environmental Characteristic

Test item	Test description.
1. Low temperature	Temp.: -20 °C Time: 24 hours
Two. High temperature	Temp.: 80°C Time: 24 hours
3. Salt fog	5±0.1% Nad salt fog PH Value: 6.5-7.2 Temp: 35±1°C Time: 24 hours

.10.1 Reliability test report Characteristics and Reliability Test

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Test items Measure Try Item		Test condition and procedure Test method	Requireme. Its Want Seek	Result. Result
C1.	V.S.W.R. Voltage standing wave ratio	Set DUT on Network Analyzer; make individual calibration to Test Set up network analyzer parameters for testing	Directive DUT. specification Conform to be tested Rules Standard	PASS
C3.	Antenna. Gain Sky Line gain	Set DUT on Antenna Chamber; make individual calibration to Test Set up antenna darkroom parameters for testing	Directive DUT. specification Conform to be tested Rules Standard	PASS
M1.	Vibration. Vibrate	GB / T2423.48-2008 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz 3 directions;2 hours for each direction Amplitude 1.5 mm; Frequency 20~80~20Hz;Three Each direction 2 hours	1. No Visual Damage Tw Frequency Tol. ≤5 o. Show percentUnknown outsid e Poor view ;Frequency shift≤ 5 percent	PASS
M4.	Pull test Pulling force	Holding with individual specification; force Applied to Axis of Connector.Define the product terminal pull separately Physical strength	1. Directive. DUT. Specification Two. Frequency Tol. ≤5 To be percentAccord with tested Property norms ;Frequency shift≤ 5 percent	PASS
M5.	Magnetic force Magnetic force	The separate definition of retention product magnetic surface magnets and adsorption on the iron Define the product separately .Magnet surface magnetic force and holding force on the adsorption iron plate	1. Directive DUT specification. Two. Frequency Tol. ≤ 5 percentTally Wait together Measurement specification ;Frequency shift≤5 percent	PASS
.M6.	Sway. Test Swing test	Holding With Individual Specification; the Swing joint and Wire, wire and plastic body test.Set separately Psythetic connector and wire, wire .Swing test with plastic body .	1. Directive DUT specification. Two. Frequency Tol. ≤ 5 percentTally Wait together Measurement specification ;Frequency shift≤5 percent	PASS
M7.	Dimension N Measurement	Inspection of dimension, color, material, package, surface process.Check the size ,Color ,Material ,Bag Luggage,On the surface Manage	Directive. DUT. Specification Conform to be tested Standardize	PASS
E2.	Salt. Spray. Salt mist	.GB/T 2423.17-2008 Temp: 35°C; RH: ≥ 95%; NaCl solution: ≥ 5%; Time: 24 hours Temperature 35°C; Humidity≥95 percent;Salt water concentration≥5 percent ; Test 24 hours	1. No visual damage 2. Frequency Tol. ≤5 percentUnknown Show outside Poor view ;Frequency shift≤ 5 percent	PASS

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E3.	Temperat. ure Humidity And Chamber. Constant temperature and humidity	GB/T 2423.3-2006 Temp: ≥ 80 °C / 12 H; -40°C / .12H RH: 90%; Time: 24H Temperature and humidity≥ 90 percent ; 80°C Test 12 hours Turn-40°C Test 12 hours; Time 24 hours	After 2 Hours Recovery 1. No visual damage 2. Frequency Tol. ≤5 percentRecovery 2 hours After that, there is no obvious appearance defect. ; Frequency shift≤5 percent	PASS
E4.	Thermal Shock. Cold and hot shock	GB/T 2423.22 - 2008 - 40°C (30 minutes) to + 80° C (30 Minutes); Cycles: 24	.After 2 Hours Recovery 1. Number Visual damage 2. Frequency Tol. ≤5 percent	PASS

11 Product packaging specificationsCode for product packaging

Product name/Specifications							
I. Label requirements				.Material label			
Customer's name	****			Supplier	***		
Supplier's name	***	Purchase order number	***	Project name:	***		
Material number	***	Name of material	***	Material code:	***		
Material specifications	***	Quantity	***	Material specifications	***		
Production date	***	Inspector	***	Delivery date:	***	Delivery quantity:	***

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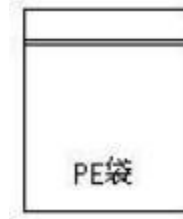
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II. Instructions for

packing requirements:

1. Inner packaging:

Product 150 PCS. A small bag



2. Outer packaging:

Determine the quantity
according to the actual
quantity/Chest



纸箱



Precautions:

1. Whether to add partitions and pearl cotton;
2. The attachment of the label, such as ROHS. And so on;

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