



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN0433-SP053036

Product Name: Antenna

Specification For Approval

Date: 2024.5.22

Version: 1.0

客户名称

Customer:

客户料号

Customer P/N:

腾祥料号

TX P/N:

AN0433-SP053036

规格描述

Description:

433MHz 弹簧天线

Tengxiang Checked By: 腾祥审核		Customer Approved By: 客户审核	
DRAWN 制作	路婷	TESTED BY 检测	
CHECKED BY 审核	胡超	CHECKED BY 审核	
Q.C.DEPT. 品管	祁志鹏	Q.C.DEPT. 品管	
APPROVED BY 核准	韦佳	APPROVEDBY 核准	



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Product Name: Antenna

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- 2. Characteristics and Reliability Test (产品特性和可靠性测试标准)
- 3. Mechanical and Packing Drawing (图纸包装规范)

Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2024.5.22	初版	

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1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	433MHz
S.W.R. 驻波比	≤ 2.0
Antenna Gain 增益	0.52dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Material 材质	黄铜
C. Environmental	
Storage Temperature 存储温度	- 40°C ~ +80 °C
Operation Temperature 工作温度	- 40°C ~ +80 °C
Antenna Color Storage life 天线颜色存储寿命	< 2 year

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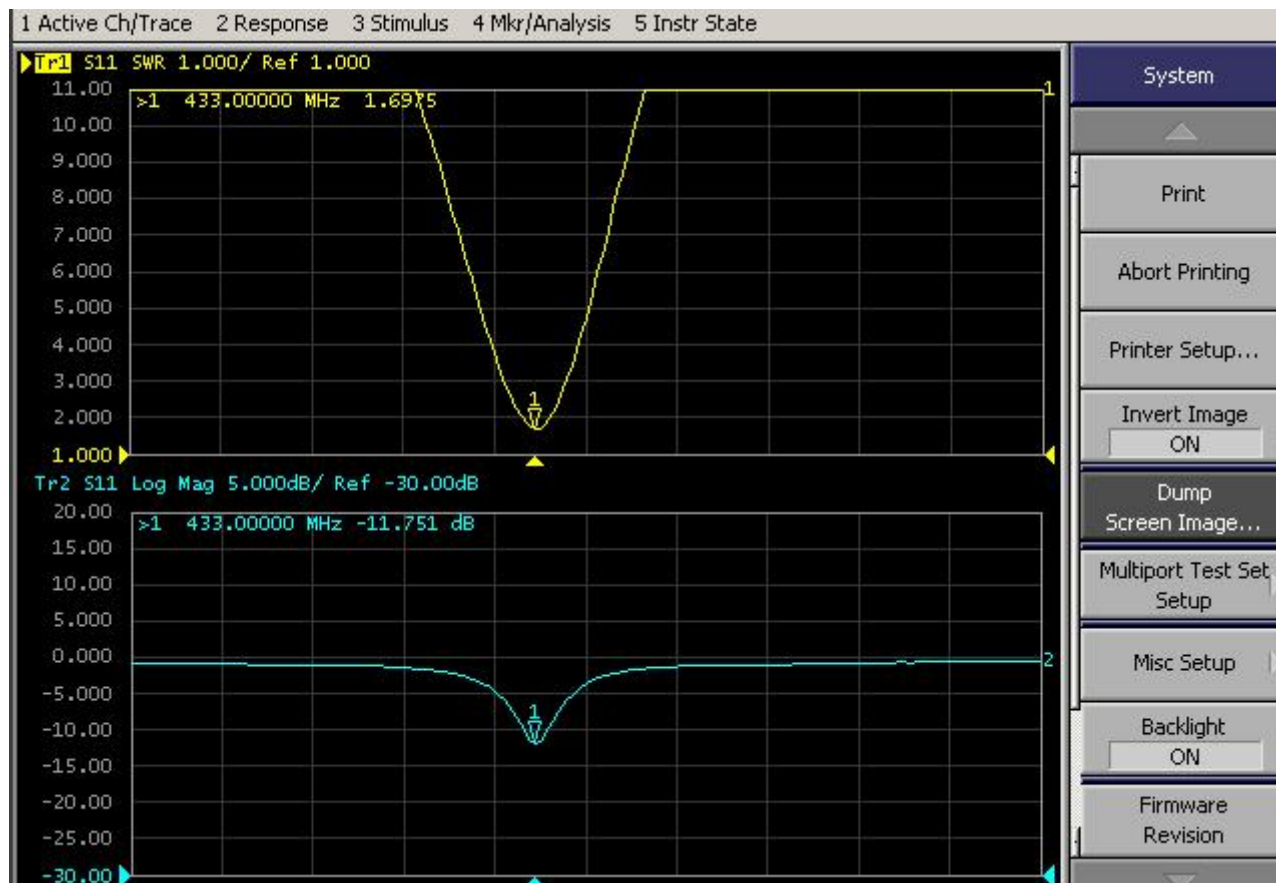
2. Characteristics and Reliability Test

Test Items 测试项目		Test Condition and Procedure 测试方法	Requirements 要求	Result 结果
1	V.S.W.R. 电压驻波比	Set DUT on Network Analyzer; make individual calibration to test 设置网络分析仪参数进行测试	Directive DUT specification 符合待测物规范	PASS
2	Insertion Loss 插入损失	Set DUT on Network Analyzer; make individual calibration to test 设置网络分析仪参数进行测试	Directive DUT specification 符合待测物规范	PASS
3	Antenna Gain 天线增益	Set DUT on Antenna Chamber; make individual calibration to test 设置天线暗室参数进行测试	Directive DUT specification 符合待测物规范	PASS
4	Solderability 可焊性	GB / T2423.28-2005 Temp: 260±5° C;Duration: 5 seconds 温度 260±5° C;持续 5 秒	Tin evenly on full 上锡均匀饱满	PASS
5	Pull Test 拉力	Holding with individual specification; force applied to axis of terminal .单独定义产品端子拉力	1. Directive DUT specification 2. Frequency Tol.≤5% 符合待测物规范;频率偏移≤5%	PASS
6	Dimension 尺寸	Inspection of dimension, color, material, package, surface process.检查尺寸,颜色,材料,包装,表面处理	Directive DUT specification 符合待测物规范	PASS
7	Salt Spray 盐雾	GB / T 2423.17-2008 Temp: 35°C; RH: ≥ 95%; NaCl solution: ≥ 5%;Time: 24H 温度 35°C; 湿度≥95%;盐水浓度≥5%; 测试 24H	1. No Visual Damage 2. Frequency Tol.≤5% 无明显外观不良;频率偏移≤5%	PASS
8	RoHS	With Reference to IEC 62321:2008 with flow chart 参考 IEC 62321 测试流程	Directive RoHS 2015/863/EU 符合 RoHS 2015/863/EU 标准	PASS

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3. Antenna - S Parameter Test Data



4. Antenna - Radiation Pattern Test Data

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	428.0	429.0	430.0	431.0	432.0	433.0	434.0	435.0	436.0	437.0	438.0
Gain (dBi)	0.26	0.40	0.10	0.52	0.36	0.25	0.25	0.28	0.40	0.40	0.33
Efficiency (%)	35.11	37.09	38.63	41.45	43.15	43.80	43.74	43.54	42.51	41.96	41.93

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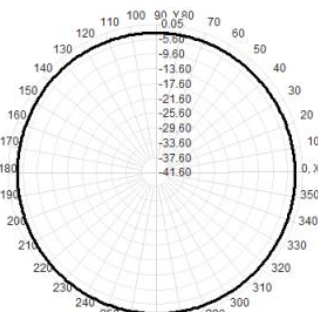
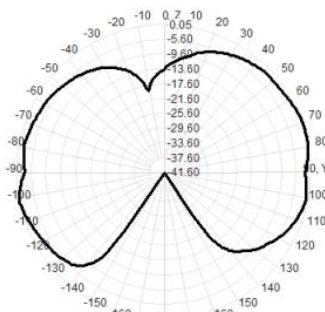
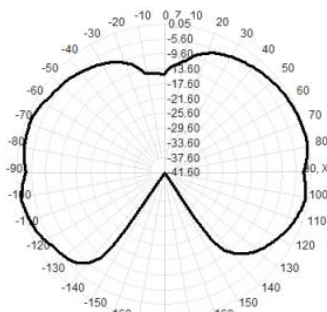
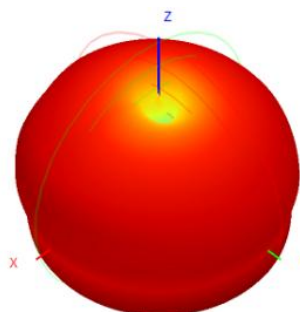
Product Name: Antenna

XZ

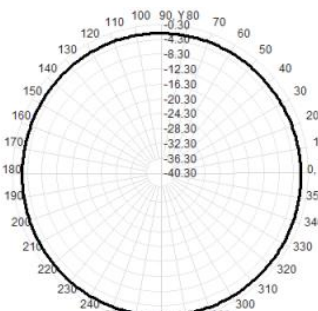
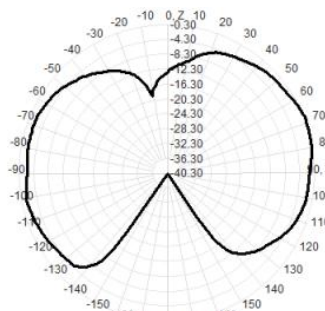
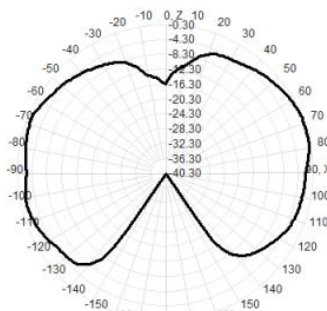
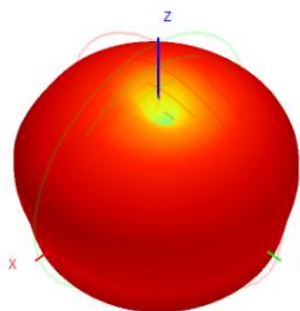
YZ

XY

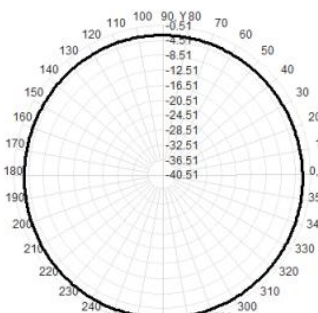
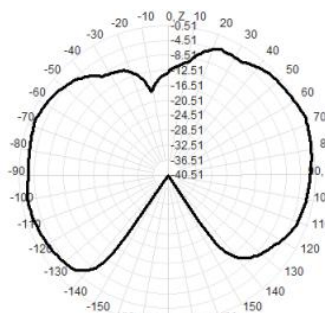
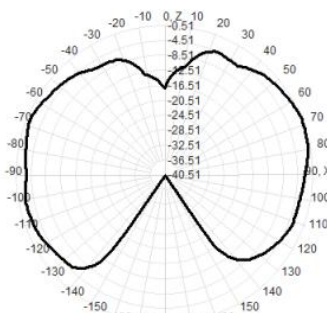
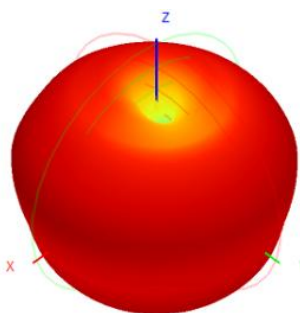
428MHz



433MHz



438MHz



5. Mechanical Drawing See attached files

产品包装规范

PACKING CRITERION

Date: 2024.04.26

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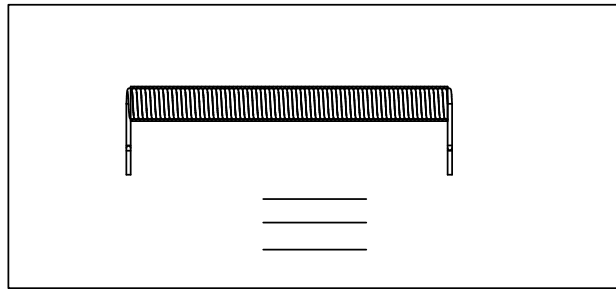
Part Number : AN0433-SP053036

Revision : A

Name: Antenna

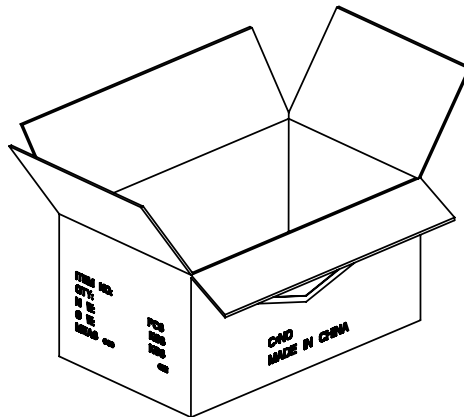
Customer : ALL

1 . Enter PE bag。



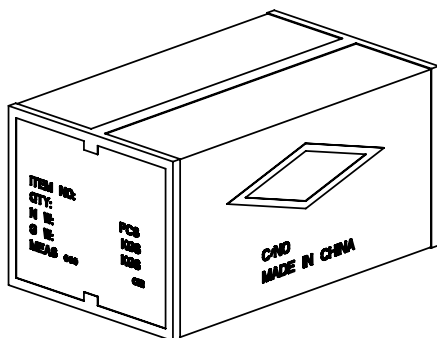
200pcs/ PE bag

2.PACKING。

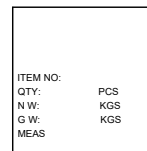


8000pcs/Carton

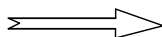
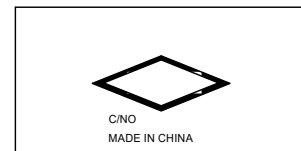
3. SEALING。



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : SY Y