



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number:AN2450-SNA181004

Product Name: Antenna

Specification For Approval

Date: 2024.10.11

Version: 1.0

客户名称

Customer:

九安

客户料号

Customer P/N:

腾祥料号

T X P/N:

AN2450-SNA181004

规格描述

Description :

2.4/5G 金属片天线

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	江美如	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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Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2024.10.10	初版	

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1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	2400-2500 MHz/5150-5850MHz
S.W.R. 驻波比	<= 2.0 /<= 2.5
Antenna Gain 增益	3.42dBi /3.86dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Material 材质	洋白铜
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
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	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
5	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



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4. Antenna - Radiation Pattern Test Data

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	3.08	3.15	3.26	3.42	3.31	3.35	3.18	3.13	3.10	3.09	3.04
Efficiency (%)	57.42	58.81	61.16	59.00	57.33	58.02	59.93	60.12	58.63	57.25	56.01

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
2.37	2.13	2.57	2.04	2.36	2.75	2.83	2.54	2.34	2.40	3.08	3.45	3.86	3.83	3.27
41.25	40.29	42.19	41.28	42.63	41.37	42.66	41.58	42.46	43.85	44.49	43.86	41.77	42.10	41.95

有源

802.11b 11Mbps				802.11g 54Mbps			
Test Chnanel	ch1	ch6	ch11	Test Chnanel	ch1	ch6	ch11
TRP(dBm)	18.17	18.24	18.12	TRP(dBm)	17.32	17.77	17.44
TIS(dBm)	-83.97	-83.67	-84.23	TIS(dBm)	-71.34	-71.25	-71.72

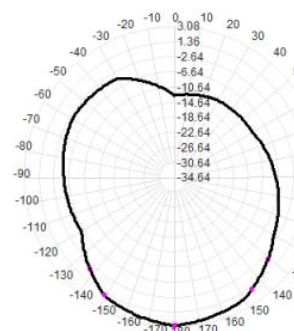
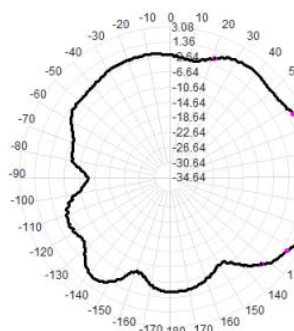
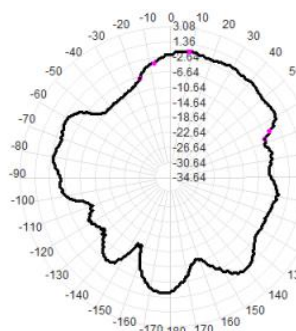
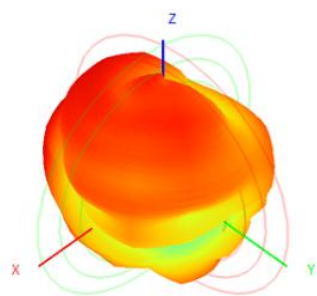
802.11n MCS7				802.11a 54Mbps				
Test Chnanel	ch1	ch6	ch11	Test Chnanel	ch44	ch120	ch132	ch149
TRP(dBm)	17.65	17.28	17.97	TRP(dBm)	17.68	18.35	18.7	17.94
TIS(dBm)	-67.63	-68.54	-68.49	TIS(dBm)	-74.83	-75.87	-76.84	-74.93

XZ

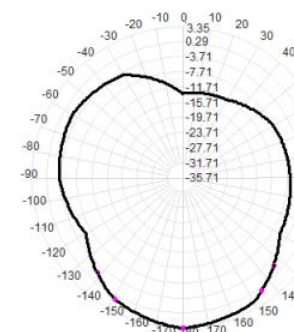
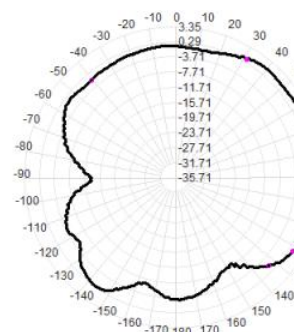
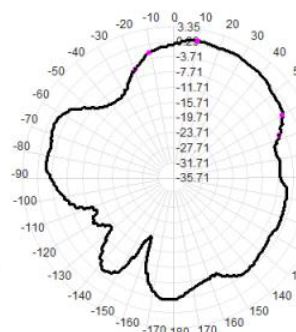
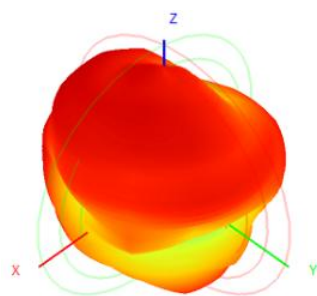
YZ

XY

2400MHz



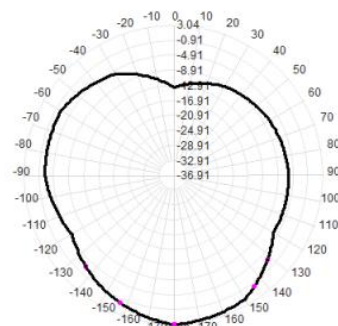
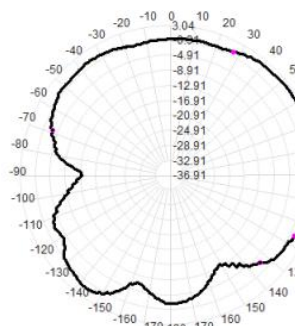
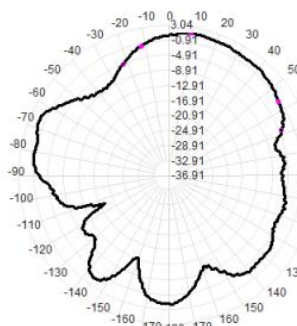
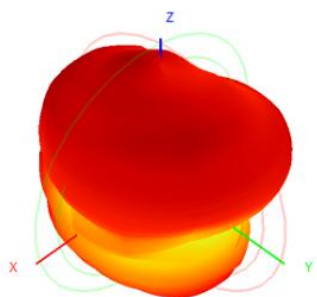
2450MHz



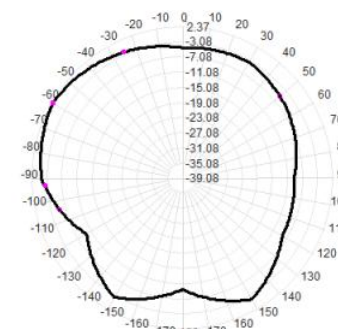
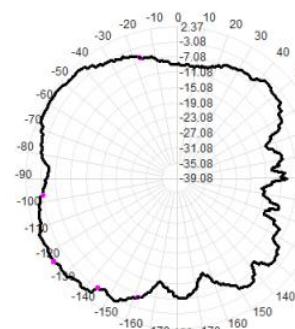
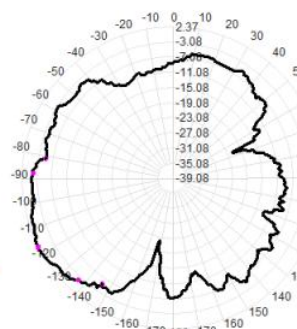
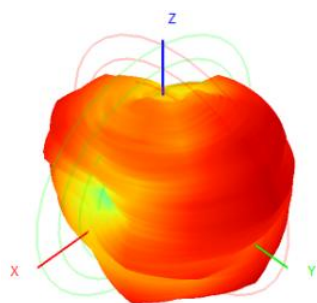
Product Number:AN2450-SNA181004

Product Name: Antenna

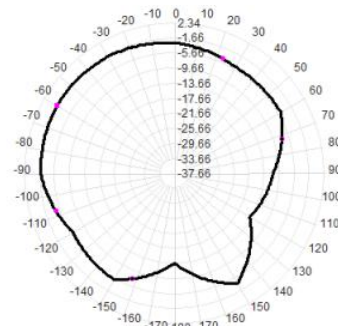
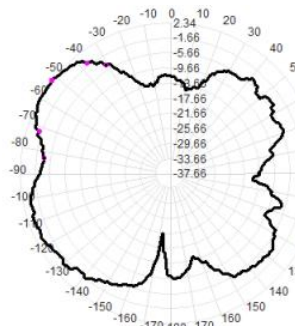
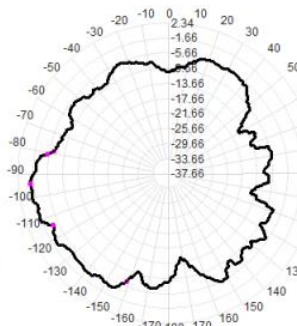
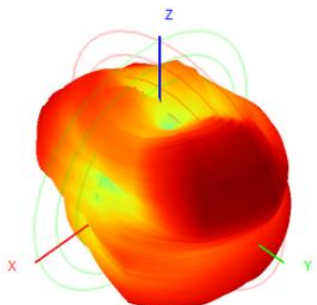
2500MHz



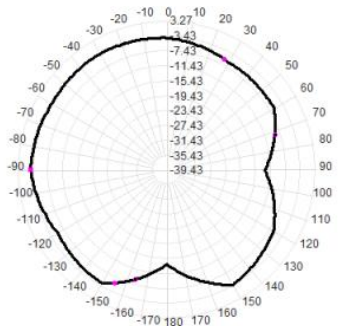
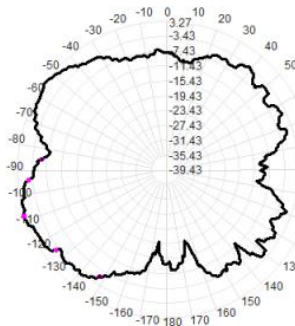
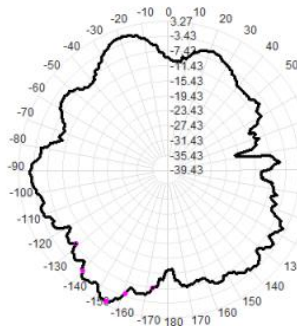
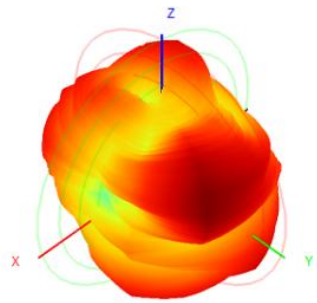
5150MHz



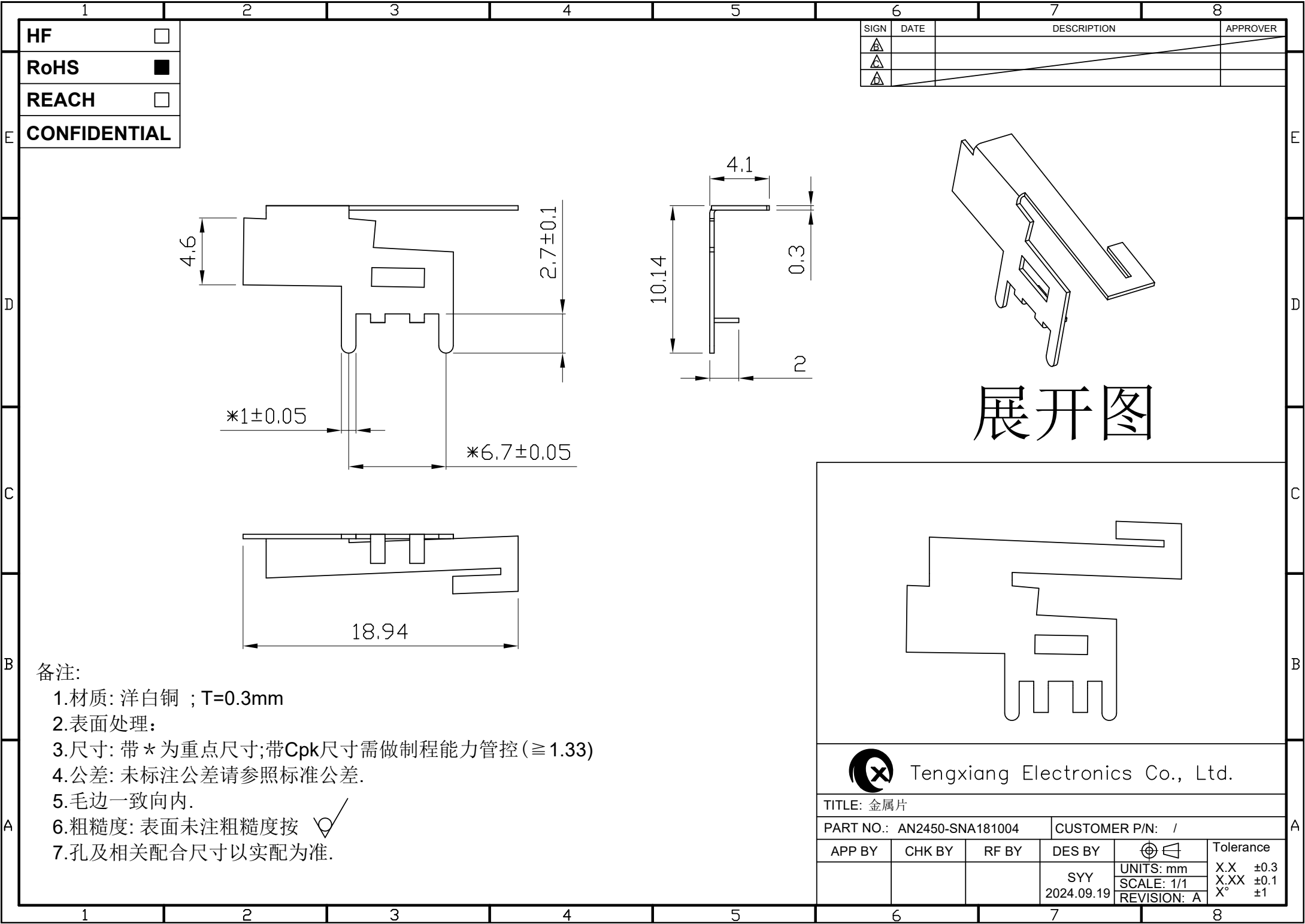
5550MHz



5850MHz

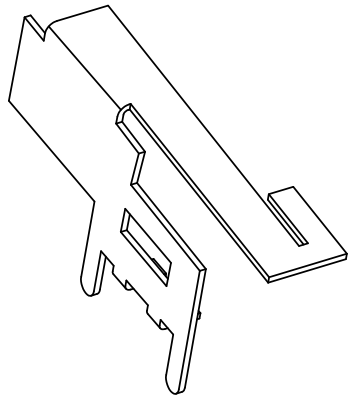


5. Mechanical Drawing See attached files

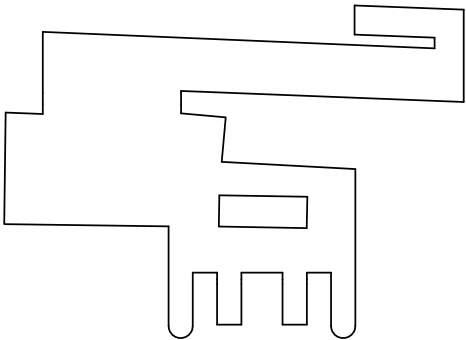


HF ☐
RoHS ☒
REACH ☐
CONFIDENTIAL

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



展开图



- 备注:
- 1.材质: 洋白铜 ; T=0.3mm
 - 2.表面处理:
 - 3.尺寸: 带*为重点尺寸;带Cpk尺寸需做制程能力管控(≥ 1.33)
 - 4.公差: 未标注公差请参照标准公差.
 - 5.毛边一致向内.
 - 6.粗糙度: 表面未注粗糙度按 $\sqrt{0.4}$
 - 7.孔及相关配合尺寸以实配为准.



Tengxiang Electronics Co., Ltd.

TITLE: 金属片					
PART NO.: AN2450-SNA181004			CUSTOMER P/N: /		
APP BY	CHK BY	RF BY	DES BY	UNITS: mm SCALE: 1/1 REVISION: A	Tolerance
			SYT 2024.09.19		X.X ±0.3 X.XX ±0.1 X° ±1

产品包装规范

PACKING CRITERION

Date: 2024.10.10

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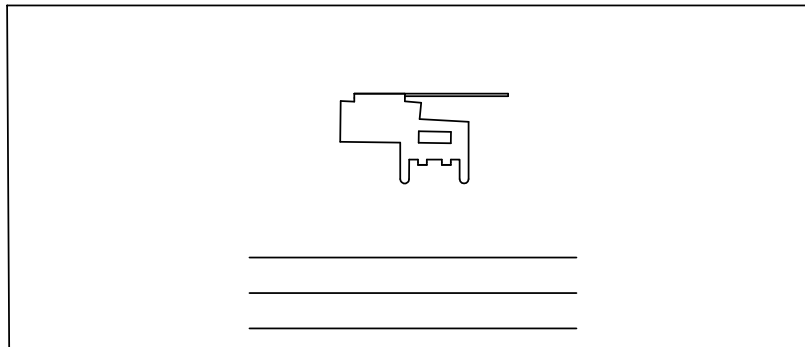
Part Number : AN2450-SNA181004

Revision : A

Name: Antenna

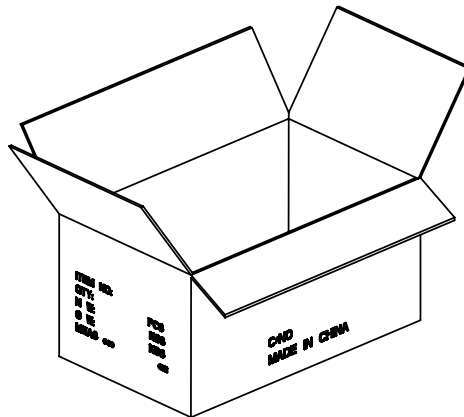
Customer : ALL

1 . Enter PE bag。



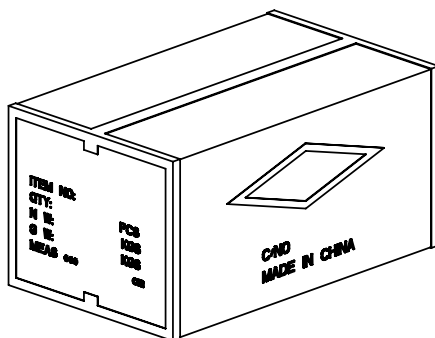
100pcs/ PE bag

2.PACKING。

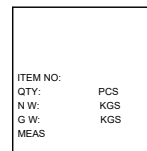


8000pcs/Carton

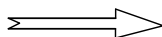
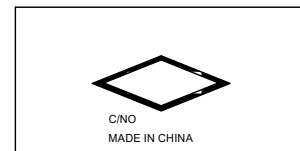
3. SEALING。



SIDE



FRONT



APPROVED BY: YCX

CHECKED BY: HC

DESIGNED BY: SY Y