



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:

Guangdong Intelligent Cloud Innovation Technology Co. , Ltd.

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	



NO.53 Shatou ShaChong Road, ChangAn Town, Guangdong province, China

中国广东省东莞市长安镇沙头区沙涌路 53 号

TEL:86-769-81873082 FAX:86-769-82663788

<http://www.tenxiang.cn>



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东莞市腾祥电子有限公司

Product Number:AN2450-SNA181004

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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Product Name: Antenna

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

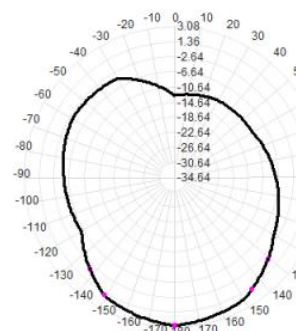
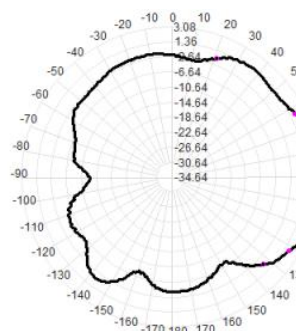
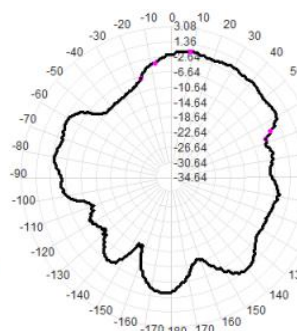
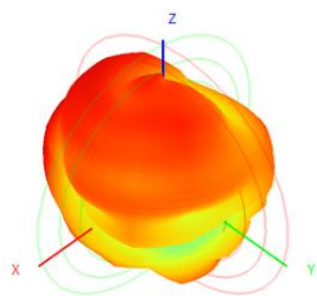
802.11n MCS7				802.11a 54Mbps				
Test Chnanel	ch1	ch6	ch11	Test Chnanel	ch44	ch120	ch132	ch149
TRP(dBm)	17.65	17.28	17.97	TRP(dBm)	17.68	18.35	18.7	17.94
TIS(dBm)	-67.63	-68.54	-68.49	TIS(dBm)	-74.83	-75.87	-76.84	-74.93

XZ

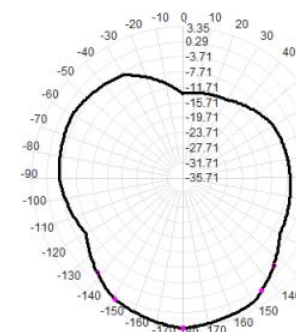
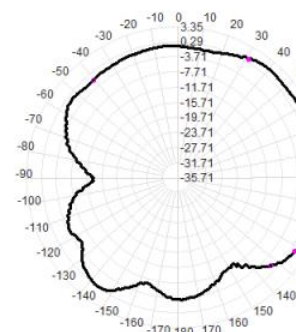
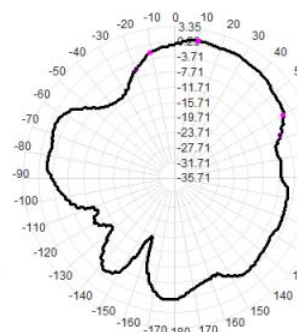
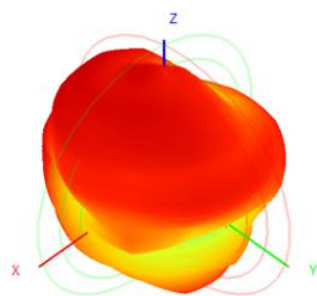
YZ

XY

2400MHz



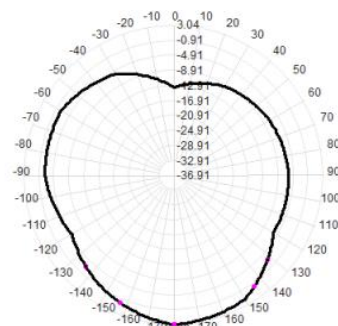
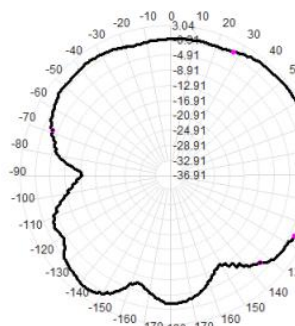
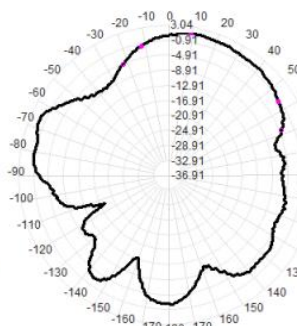
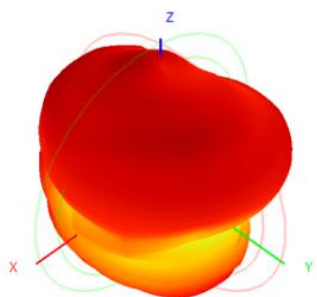
2450MHz



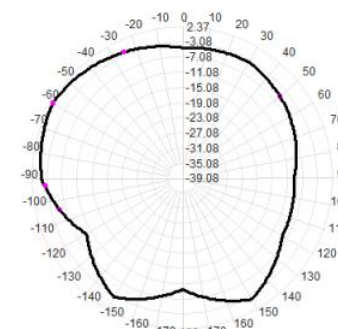
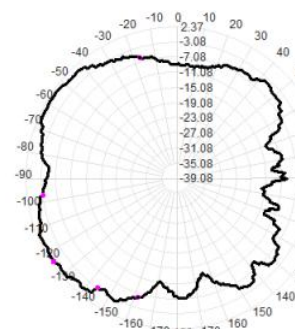
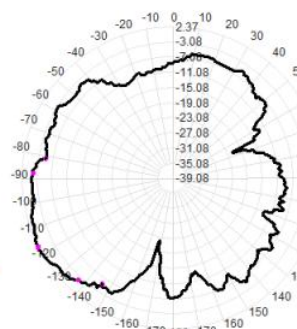
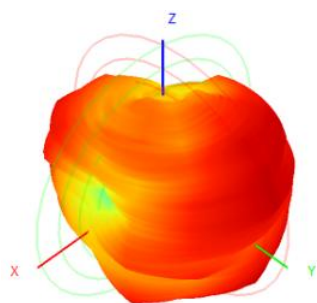
Product Number:AN2450-SNA181004

Product Name: Antenna

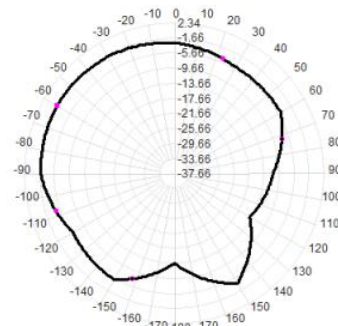
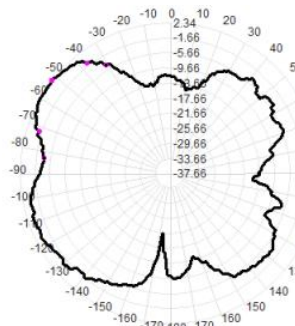
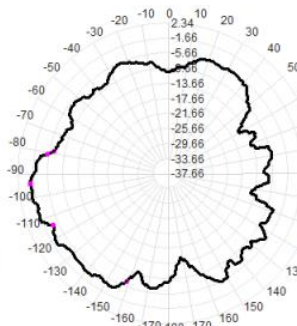
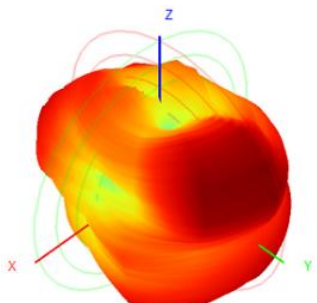
2500MHz



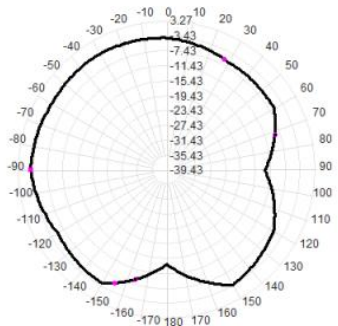
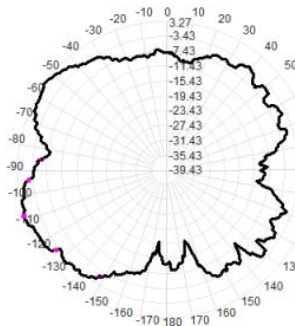
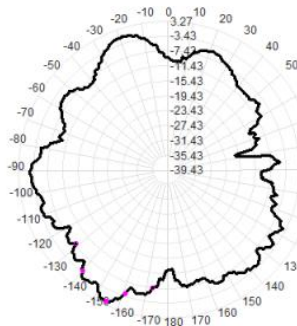
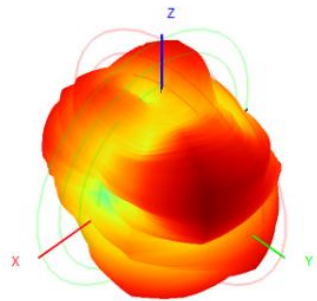
5150MHz



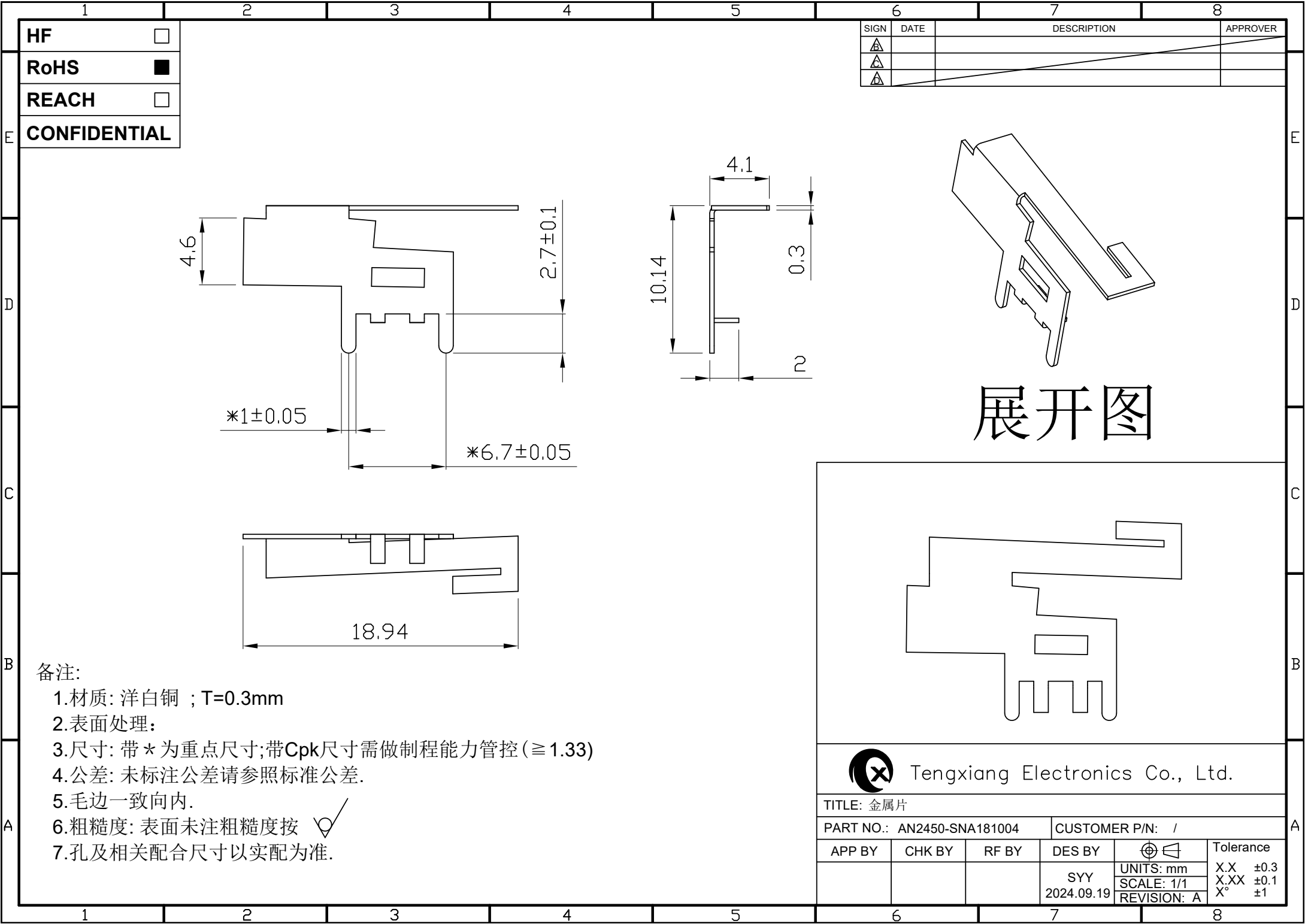
5550MHz



5850MHz

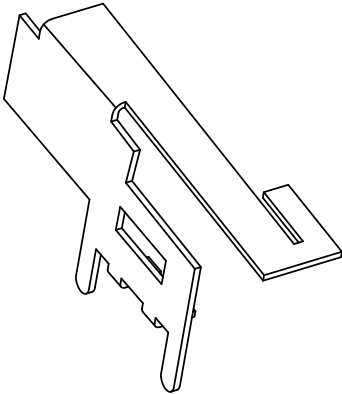


5. Mechanical Drawing See attached files

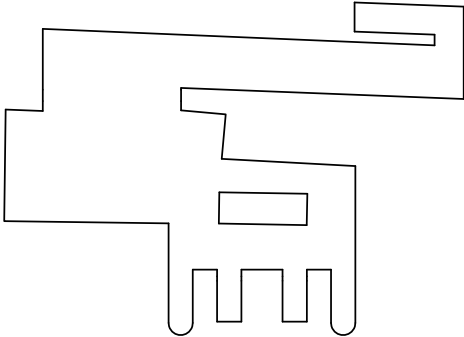


HF ☐
RoHS ☒
REACH ☐
CONFIDENTIAL

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 $\sqrt{\text{ }}$
 - 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

Page: 1 of 1

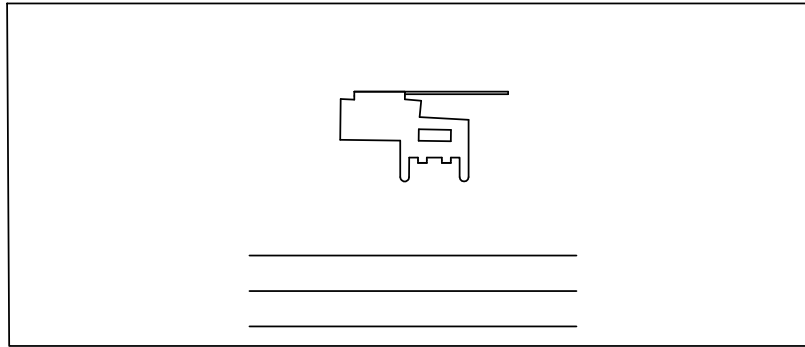
Part Number : AN2450-SNA181004

Revision : A

Name: Antenna

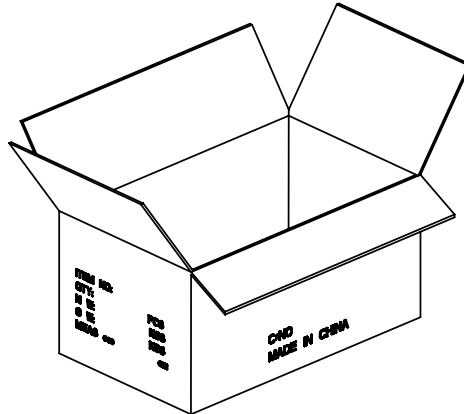
Customer : ALL

1 . Enter PE bag。



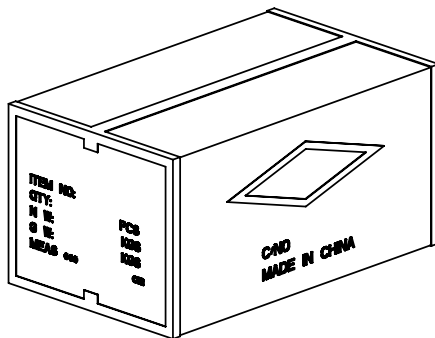
100pcs/ PE bag

2.PACKING。

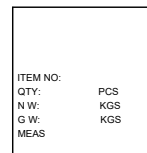


8000pcs/Carton

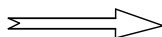
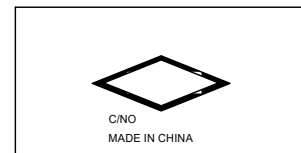
3. SEALING。



SIDE



FRONT



APPROVED BY: YCX

CHECKED BY: HC

DESIGNED BY: SY Y