



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN2450-PCB595530

Product Name: Antenna

Specification For Approval

Date: 2022.9.17

Version: 1.0

客户名称

Customer:

深圳市神牛摄影器材有限公司

客户料号

Customer P/N:

122-49553-000

腾祥料号

T X P/N:

AN2450-PCB595530

规格描述

Description :

2.4G/5G PCB 天线,1.13mm 黑色线 L=100mm+IPEX

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



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<http://www.tenxiang.cn>



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东莞市腾祥电子有限公司

Product Number: AN2450-PCB595530

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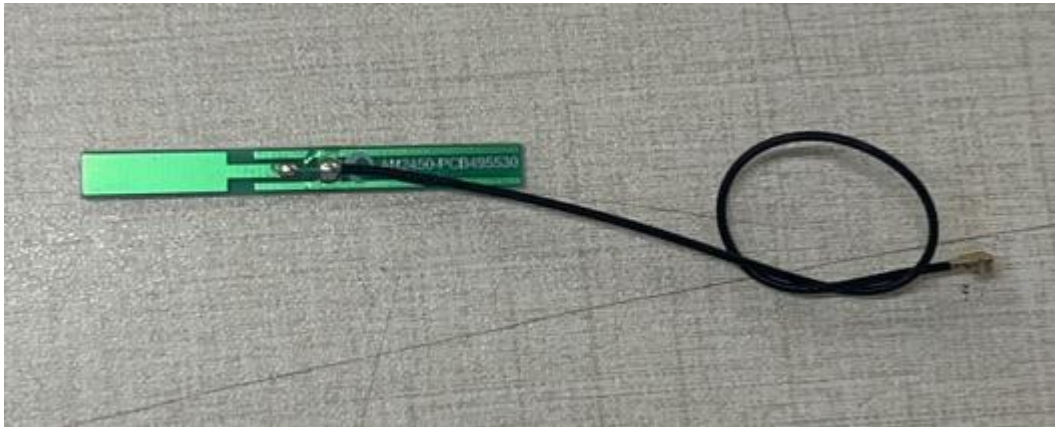
Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2022.09.17	初版	

Product Number: AN2450-PCB595530

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	2.32 dBi / 2.27 dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Cable Type 线材规格	OD1.13mm ,Black
Connector Type 连接器规格	I-PEX
C. Environmental	
Storage Temperature 存储温度	- 40°C ~ +80 °C
Operation Temperature 工作温度	- 40°C ~ +80 °C

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Product Name: Antenna

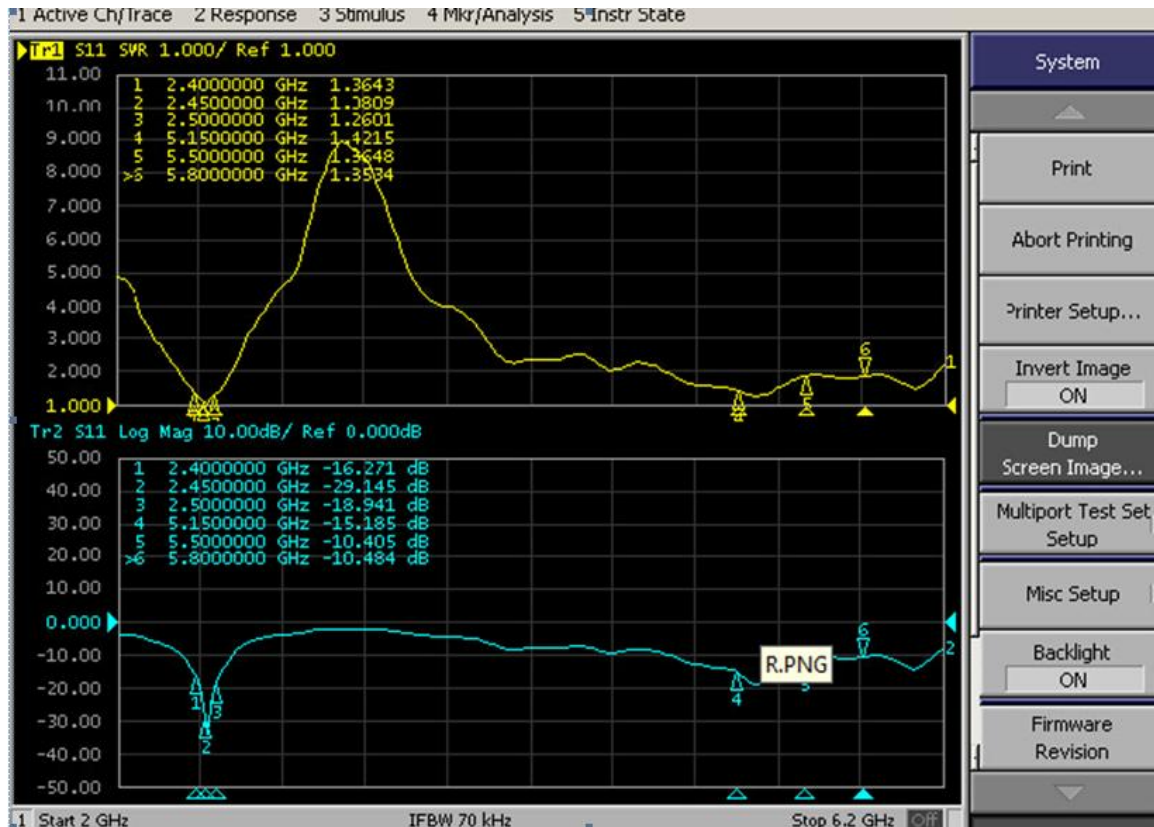
2. Characteristics and Reliability Test

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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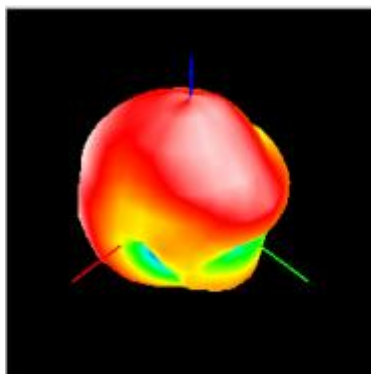
Product Name: Antenna

3. Antenna - S Parameter Test Data

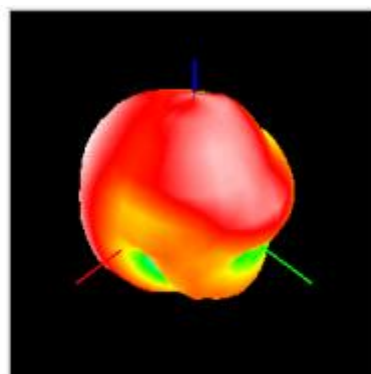


Frequency (MHz)	2400.0	2450.0	2500.0	5150.0	5550.0	5850.0
Efficiency (%)	60.5	70.4	67.9	55.2	65.9	59.4
Gain (dBi)	1.67	2.32	2.18	2.05	2.27	1.67

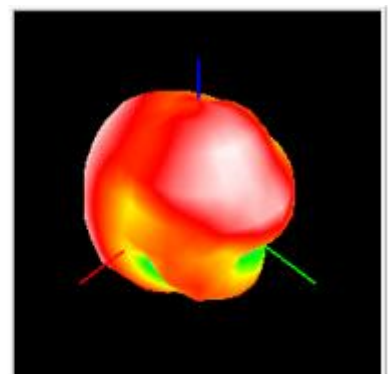
4. Antenna - Radiation Pattern Test Data



2400MHz



2450MHz



2500MHz

Product Number: AN2450-PCB595530

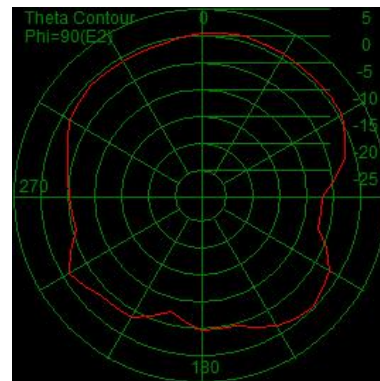
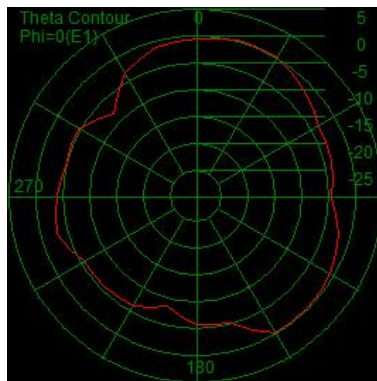
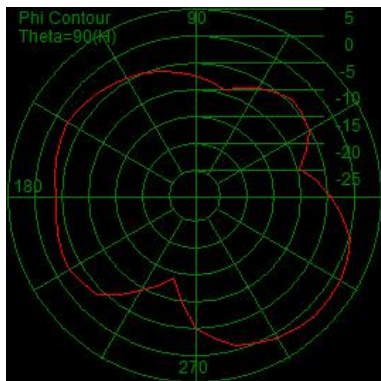
Product Name: Antenna

XY_Plane

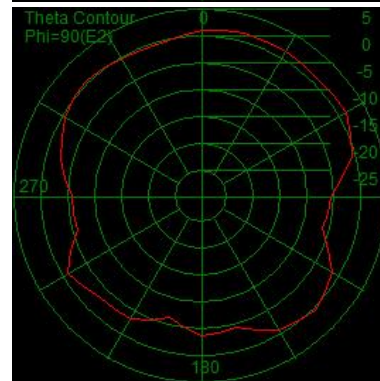
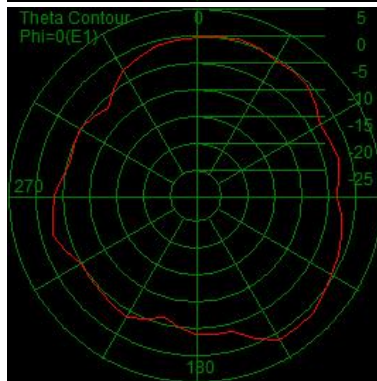
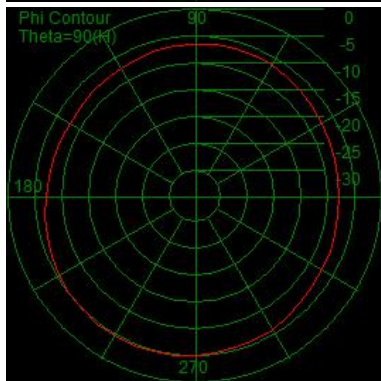
XZ_Plane

YZ_Plane

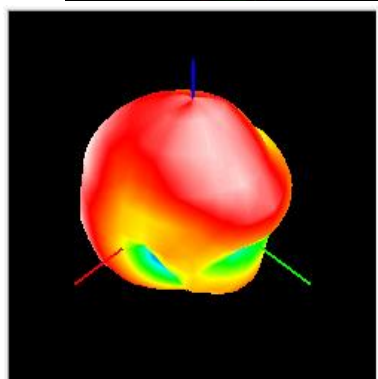
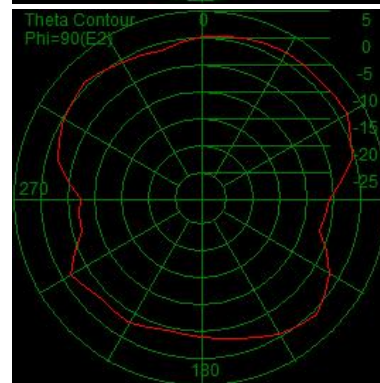
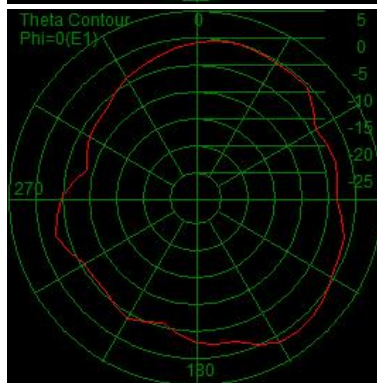
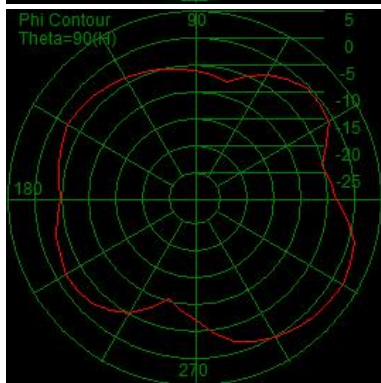
2400MHz



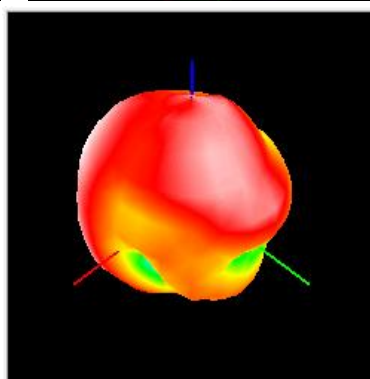
2450MHz



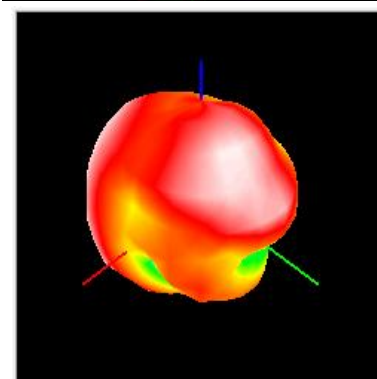
2500MHz



5150MHz



5550MHz



5850MHz

Product Number: AN2450-PCB595530

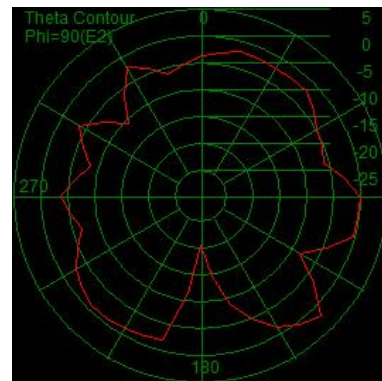
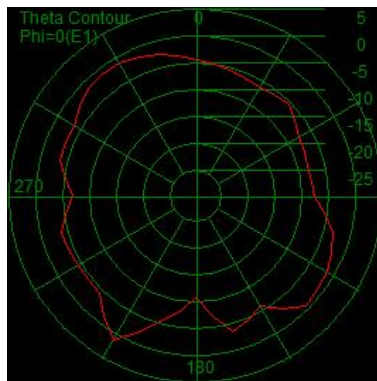
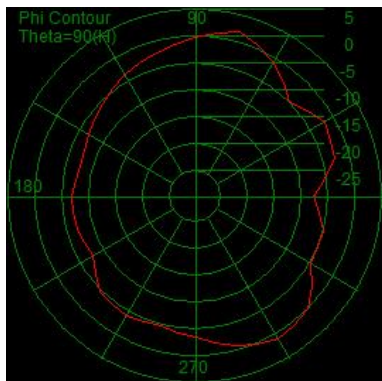
Product Name: Antenna

XY_Plane

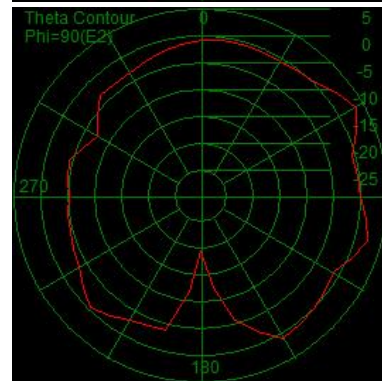
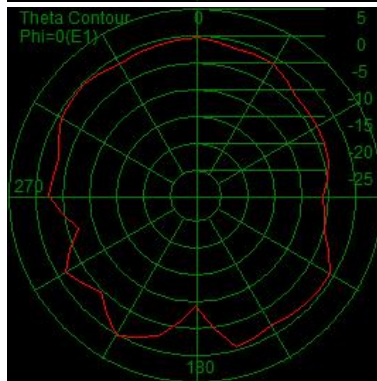
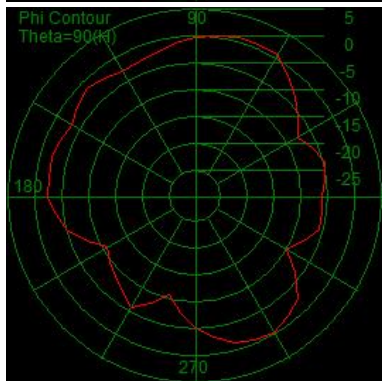
XZ_Plane

YZ_Plane

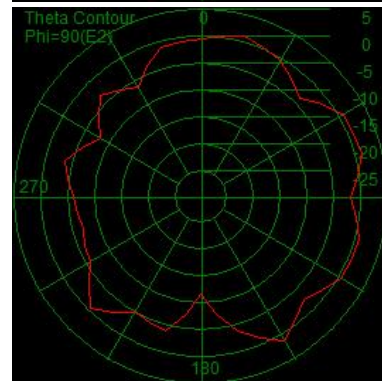
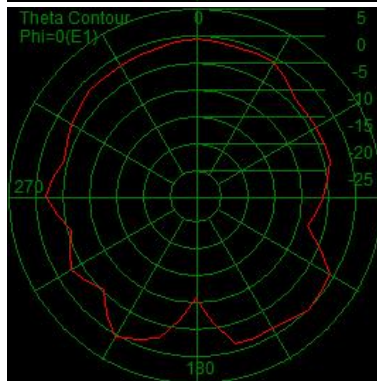
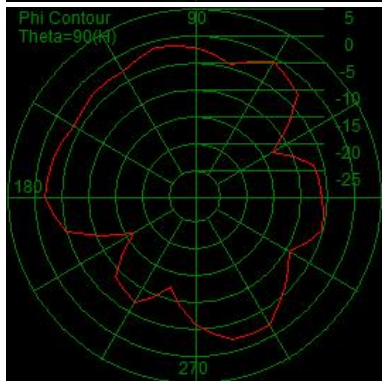
5150MHz



5550MHz



5850MHz



5. Mechanical Drawing See attached files

1	2	3	4	5	6	7	8																																																
HF ☐						SIGN DATE DESCRIPTION APPROVER																																																	
RoHS2.0 ☒																																																							
REACH ☐																																																							
CONFIDENTIAL																																																							
5.3±0.3 49.5±0.3 100±3.0 AN2450-PCB495530 ① ② ③																																																							
Note: 1.Mark * is important dimension;"Cpk "Identify for process control(CpK≥1.33). 2.Tolerance:Unmarked tolerance refer to the standard tolerance please. 3.Pay attention to the direction of the connector.																																																							
<table><tr><td>3</td><td>CR-113-ZP-A</td><td>I-PEX</td><td>CU</td><td>Au Plating</td><td>1</td></tr><tr><td>2</td><td>CB-113BS</td><td>Coaxial Cable</td><td>OD1.13 mm</td><td>Black</td><td>1</td></tr><tr><td>1</td><td>AN2450-PCB495530</td><td>PCB</td><td>FR4</td><td>green</td><td>1</td></tr><tr><td>No.</td><td>Part Number</td><td>Name</td><td>Material</td><td>Finish</td><td>Q'ty</td></tr></table>					3	CR-113-ZP-A	I-PEX	CU	Au Plating	1	2	CB-113BS	Coaxial Cable	OD1.13 mm	Black	1	1	AN2450-PCB495530	PCB	FR4	green	1	No.	Part Number	Name	Material	Finish	Q'ty	Tengxiang Electronics Co., Ltd. TITLE: 2400-2500 / 5150-5850 MHz PART NO.: AN2450-PCB34BX CUSTOMER P/N: / TP25/TP910 LJF01-19050402A-RIA <table><tr><td>APP BY</td><td>CHK BY</td><td>RF BY</td><td>DES BY</td><td> </td><td>Tolerance</td></tr><tr><td>YCX</td><td>HC</td><td>WJ</td><td>DWF</td><td>UNITS: mm</td><td>X.X ±0.5</td></tr><tr><td>2022.09.17</td><td>2022.09.17</td><td>2022.09.17</td><td>2022.09.17</td><td>SCALE: 1/1</td><td>X.XX ±0.2</td></tr><tr><td colspan="4"></td><td>REVISION: A</td><td>X° ±1</td></tr></table>			APP BY	CHK BY	RF BY	DES BY		Tolerance	YCX	HC	WJ	DWF	UNITS: mm	X.X ±0.5	2022.09.17	2022.09.17	2022.09.17	2022.09.17	SCALE: 1/1	X.XX ±0.2					REVISION: A	X° ±1
3	CR-113-ZP-A	I-PEX	CU	Au Plating	1																																																		
2	CB-113BS	Coaxial Cable	OD1.13 mm	Black	1																																																		
1	AN2450-PCB495530	PCB	FR4	green	1																																																		
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2022.09.17	2022.09.17	2022.09.17	2022.09.17	SCALE: 1/1	X.XX ±0.2																																																		
				REVISION: A	X° ±1																																																		
1	2	3	4	5	6	7	8																																																



Tengxiang Electronics Co., Ltd.

TITLE: 2400-2500 / 5150-5850 MHz

PART NO.: AN2450-PCB34BX

CUSTOMER P/N: / TP25/TP910
LJF01-19050402A-RIA

APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX	HC	WJ	DWF	UNITS: mm	X.X ±0.5
2022.09.17	2022.09.17	2022.09.17	2022.09.17	SCALE: 1/1	X.XX ±0.2
				REVISION: A	X° ±1

產品包裝規範

PACKING CRITERION

Date: 2022.09.17

Page: 1 of 1

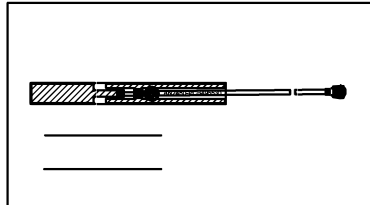
Part Number : AN2450-PCB495530

Revision : A

Name: Antenna

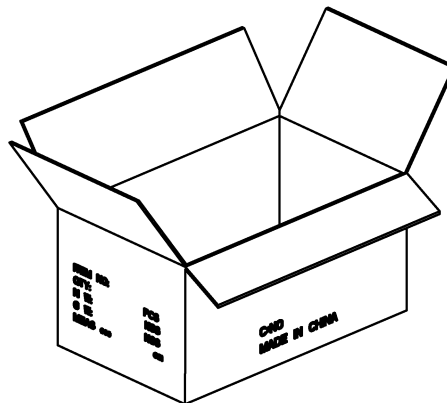
Customer : ALL

1 . Enter PE bag。



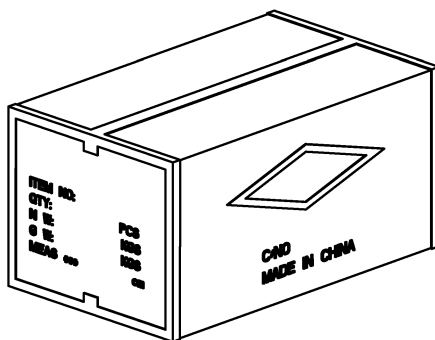
100PCS/PE BAG

2.PACKING 。

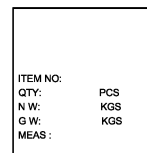


5000pcs/Carton

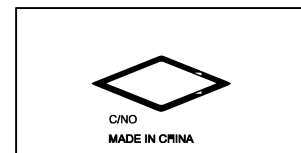
3. SEALING。



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : dwf