



天线规格书

Antenna Specification

Product Name: PCB Antenna

Model Number: AN2450-PCB122BFK

Product Spec.:L=270mm

Manufacturer Information:

Company Name: Guangzhou Xaircraft Technology CO.,LTD

Address: Block C, No.115, Gaopu Road, Tianhe District,
GuangzhouCity, Guangdong, P.R.China

Product Number: AN2450-PCB122BFK
Product Name: Antenna

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- 5. Mechanical and Packing Drawing (图纸包装规范)**

Revision History (变更履历)

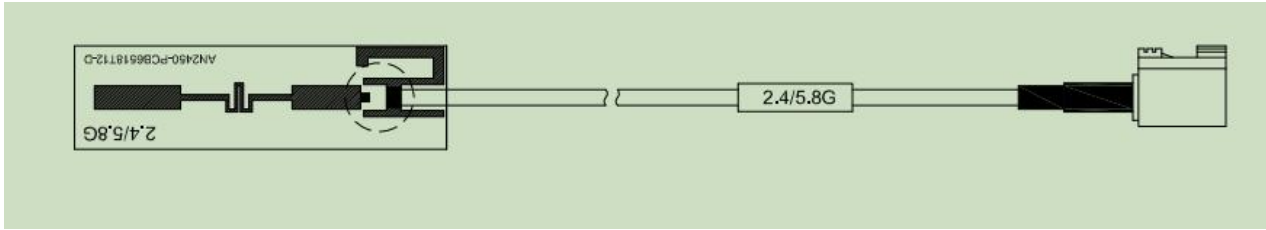
Revision	Date	Change Notification	Description
1.0	2023.9.22	First edition	

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Product Name: Antenna

1. Specification

Sample Photo



A. Electrical Characteristics

Frequency 频率	2400-2500MHz/5150-5850MHz
S.W.R. 驻波比	Reference waveform
Antenna Gain 增益	2.73dBi / 3.99dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm

B. Material & Mechanical Characteristics

Cable Type 线材规格	RG316
Connector Type 连接器规格	FAK RA- A

C. Environmental

Storage Temperature 存储温度	- 30 °C ~ +80 °C
Operation Temperature 工作温度	- 30 °C ~ +80 °C

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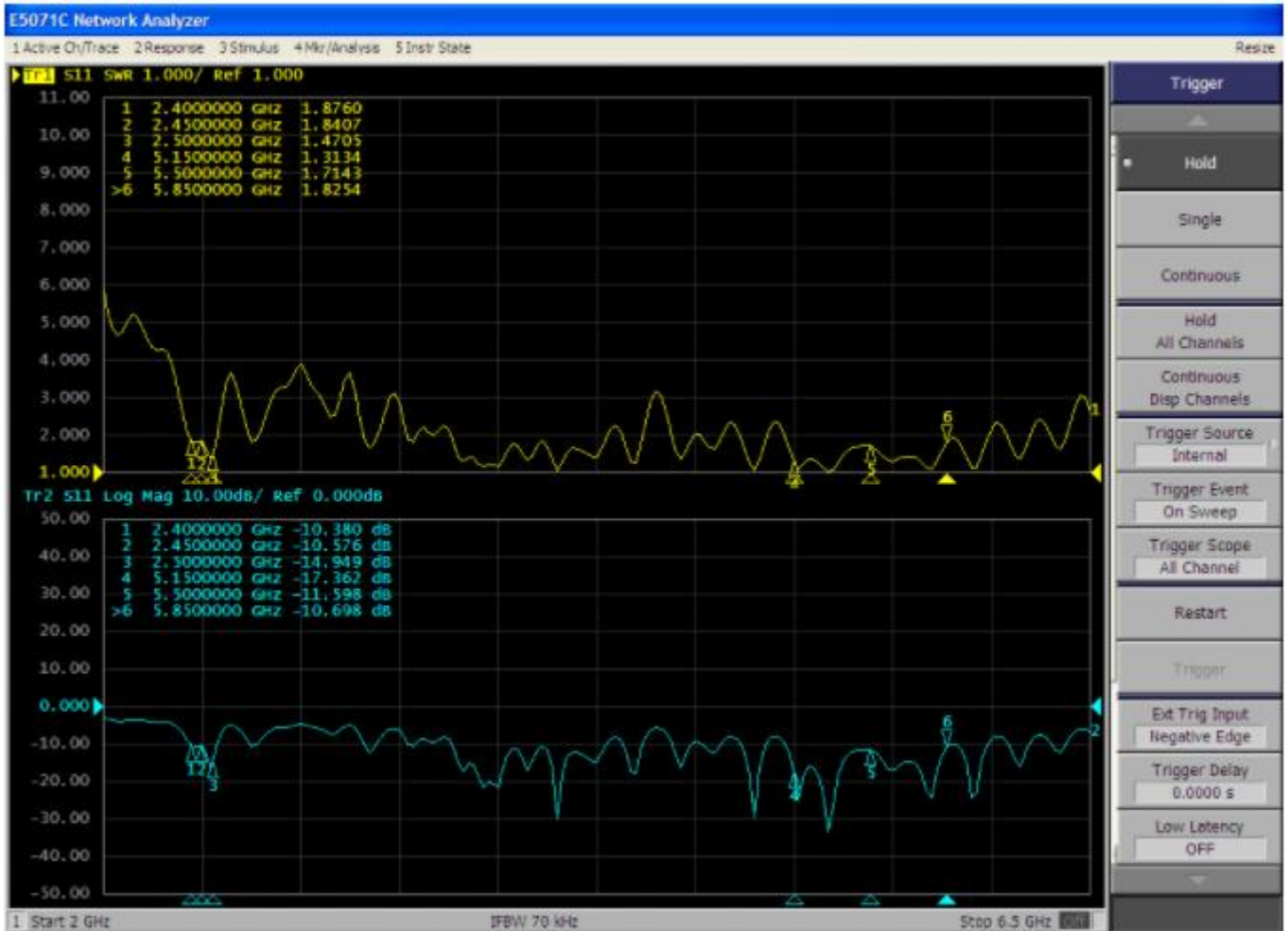
2. Characteristics and Reliability Test

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 Vibration 震动	GB / T2423.48-2008 Freq: 50to 80 to 50 Hz 10g acceleration, 12 cycles in each direction 振动: 55-80Hz, 10g 加速度, 各方向 12 次循环	1. No Visual Damage 2. Frequency Tol.≤5% 无明显外观不良;频率偏移≤5%	PASS
5 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
6 Salt Spray 盐雾	GB / T 2423.17-2008 Temp: 35°C; RH: ≥ 95%; NaCl solution: ≥ 5%;Time: 72H 温度 35°C; 湿度≥95%;盐水浓度≥5%; 测试 72H	1. No Visual Damage 2. Frequency Tol.≤5% 无明显外观不良;频率偏移≤5%	PASS
7 Temperature and Humidity Chamber 恒温恒湿	GB / T 2423.3-2006 Temp: 40°C / 12 H; -RH: ≥ 93%; Time: 48H 温度 40°C 湿度≥ 93%; 时间 48H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5% 恢复 2H 后, 无明显外观不良;频率偏移≤5%	PASS
8 Thermal Shock 冷热冲击	GB / T 2423.22 - 2008 - 30° C (30 minutes) to + 80° C (30 minutes); Cycles: 25 - 30° C 测试 30 分转 80° C 测试 30 分为一个周期; 共 25 周期	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5% 恢复 2H 后, 无明显外观不良;频率偏移≤5%	PASS
9 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



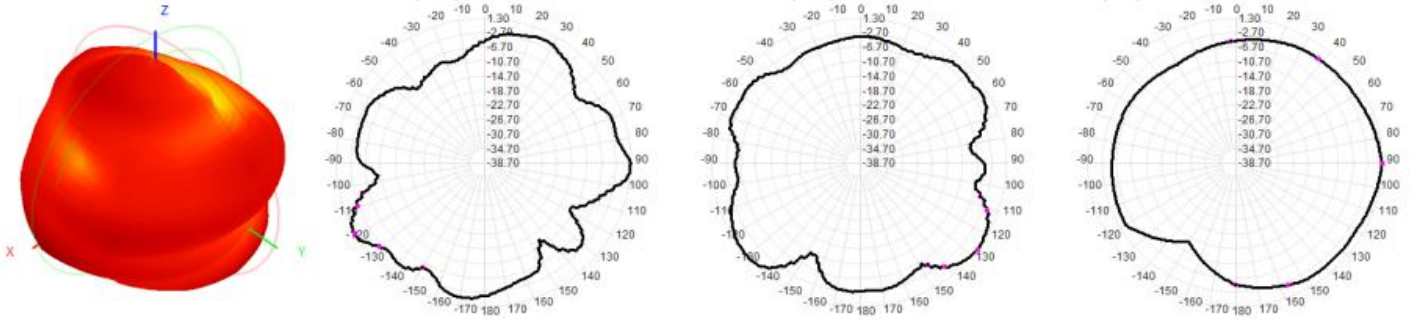
4. Antenna - Radiation Pattern Test Data

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	2.22	2.30	2.13	2.30	2.56	2.73	2.60	2.22	2.08	2.10	2.19
Efficiency (%)	58.70	60.42	59.00	60.09	60.60	62.15	58.30	54.30	51.95	51.55	50.92

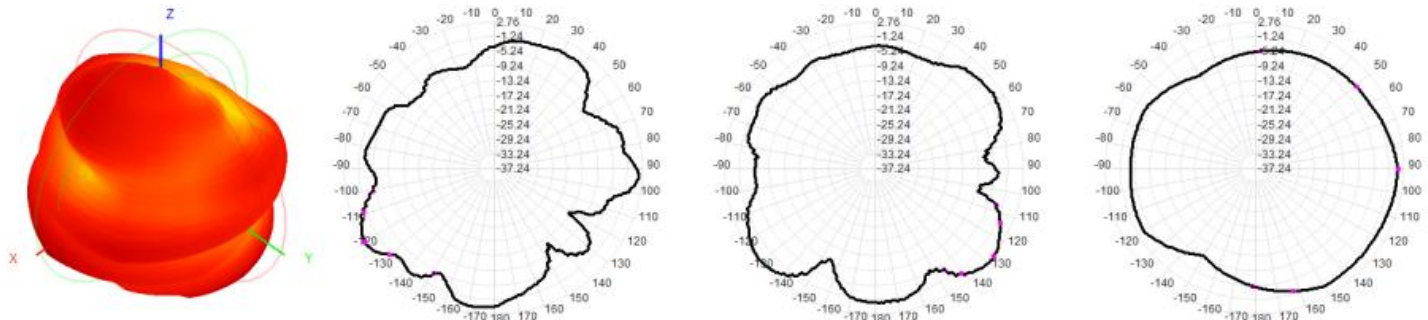
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
3.25	3.50	3.85	3.85	3.97	3.85	3.50	3.61	3.60	3.70	3.82	3.45	3.80	3.99	3.94
56.09	56.25	56.75	56.42	57.00	58.50	58.70	60.00	57.85	56.89	56.85	55.20	56.53	56.92	56.88

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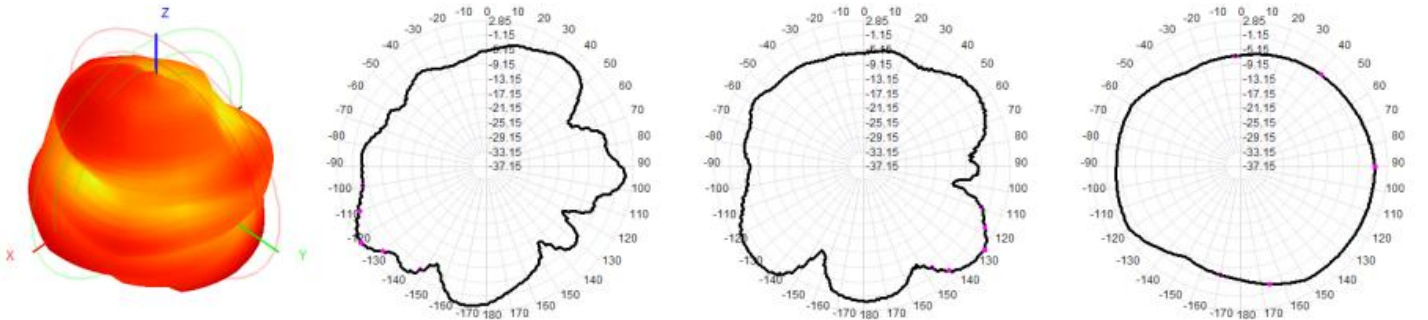
2400MHz



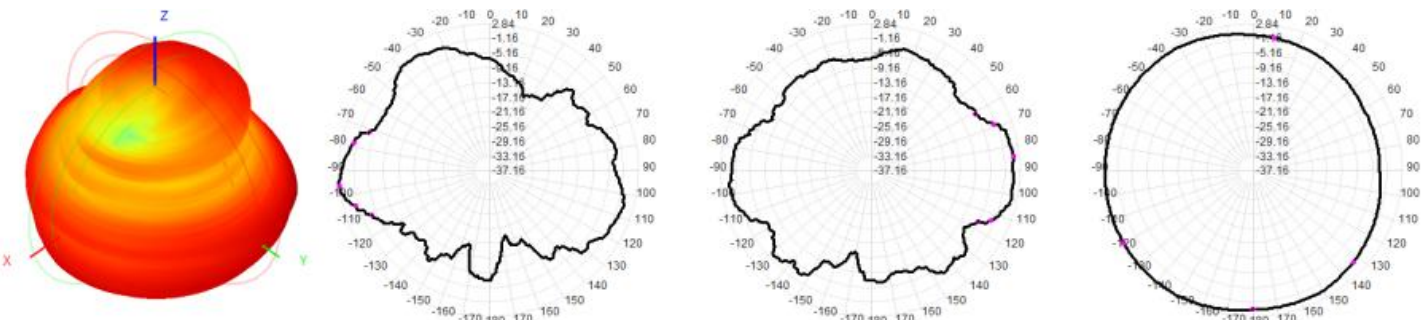
2450MHz



2500MHz

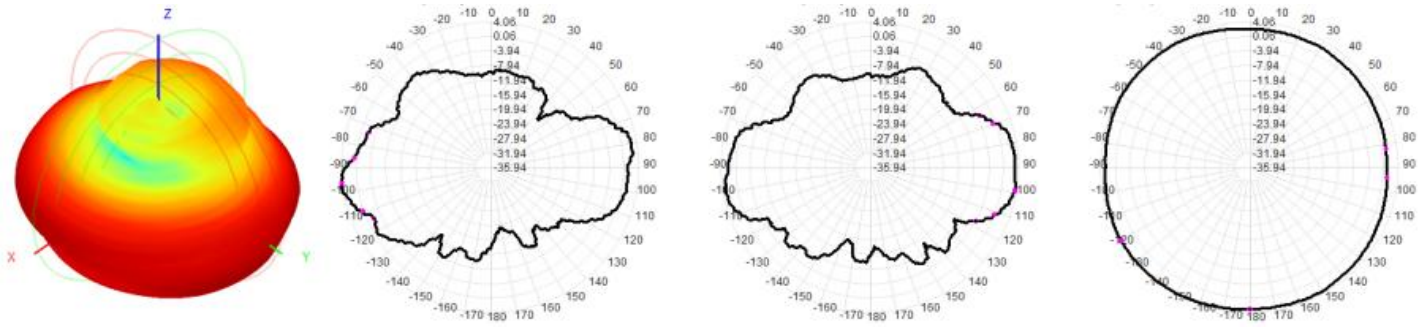


5150MHz

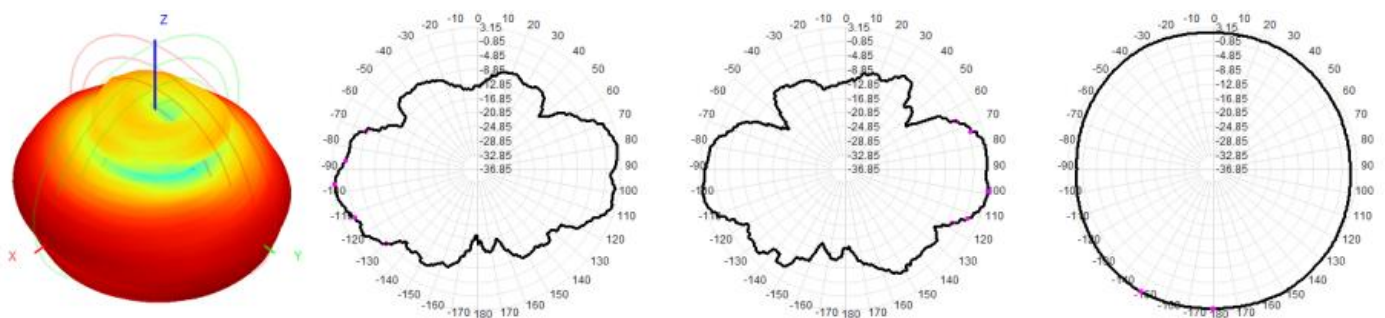


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5500MHz



5850MHz



5. Mechanical and Packing Drawing

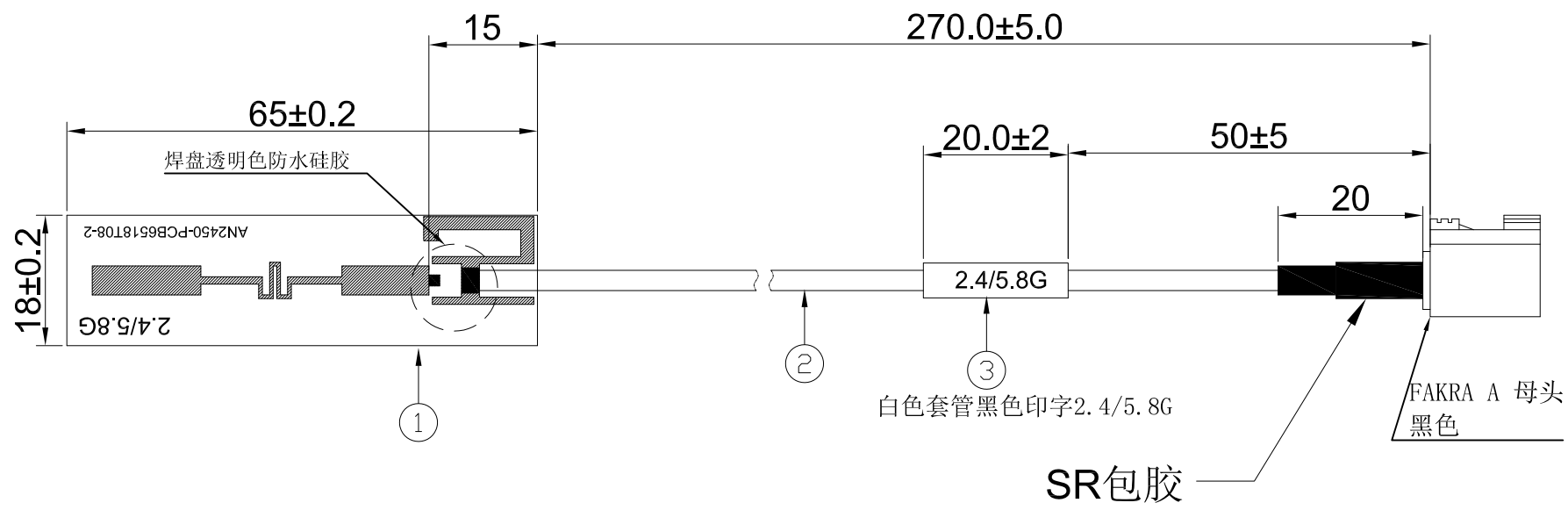
HF

RoHS2.0

REACH

CONFIDENTIAL

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



Note:

1.Mark * is important dimension;"Cpk "Identify for process control(CpK ≥ 1.33).

2.Tolerance:Unmarked tolerance refer to the standard

东莞市海恒电子科技有限公司

3	HSTUBE-035W-S5	HSTUBE	EVA	白色套管黑色印字 2.4/5.8G	1
2	CABLE-AN2450-PCB41BFK	Cable+ FAKRA-A JACK		线材+接头+套管	1
1	AN2450-PCB6518T08-2	PCB	FR4	65*18*0.8mm Black	1
No.	Part Number	Name	Material	Finish	Q'ty

TITLE: 2400-2500 / 5150-5850 MHz					
PART NO.: AN2450-PCB122BFK			CUSTOMER P/N:		
APP BY	CHK BY	RF BY	DES BY	Tolerance	UNITS: mm
YCX 2023.09.22	WJ 2023.09.22	HC 2023.09.22	SY 2023.09.22		
				X° ±1	SCALE: 1/1
					REVISION: A

产品包装规范

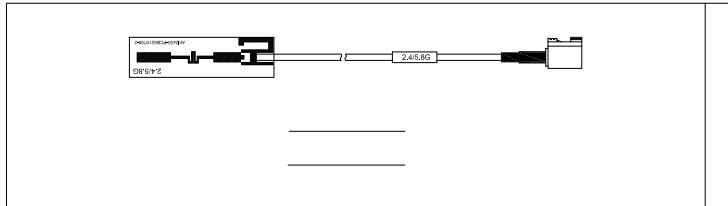
PACKING CRITERION

Date: 2023.09.22

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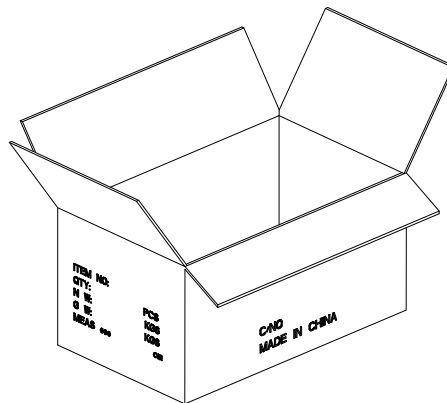
Part Number : AN2450-PCB122BFK	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。



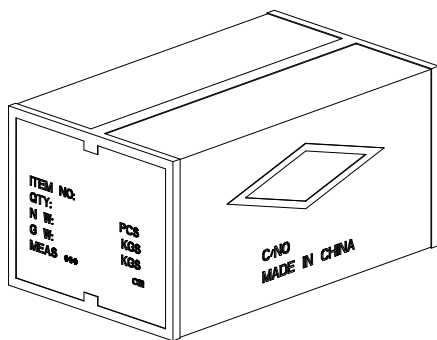
50PCS/PE BAG

2.PACKING。

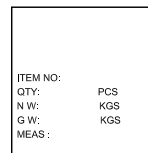


2000pcs/Carton

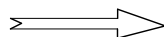
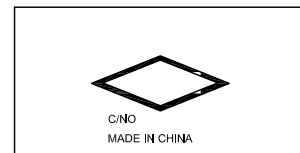
3. SEALING。



SIDE



FRONT



APPROVED BY: YCX

CHECKED BY: WJ

DESIGNED BY: SY