



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number:AN0915-FPC08BX

Product Name: Antenna

Specification For Approval

Date: 2025.2.20

Version: 1.0

客户名称

Customer:

梵影

客户料号

Customer P/N:

腾祥料号

T X P/N:

AN0915-FPC08BX

规格描述

Description : 915MHz FPC 0.81mm 黑色线 L=50mm+IPEX (4 代)

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	周志红	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>



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number:AN0915-FPC08BX

Product Name: Antenna

Index:

- 1. Specification (规格)
- 2. Characteristics and Reliability Test (产品特性和可靠性测试标准)
- 3. Antenna - S Parameter Test Data (样品测试数据)
- 4. Antenna - Radiation Pattern Test Data (辐射模式测试数据)
- 5. Mechanical and Packing Drawing (图纸包装规范)

Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2025.2.20	初版	

Product Number: AN0915-FPC08BX

Product Name: Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	915 MHz
S.W.R. 驻波比	≤ 2.0
Antenna Gain 增益	0.91dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Cable Type 线材规格	OD0.81mm ,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

Product Number: AN0915-FPC08BX

Product Name: Antenna

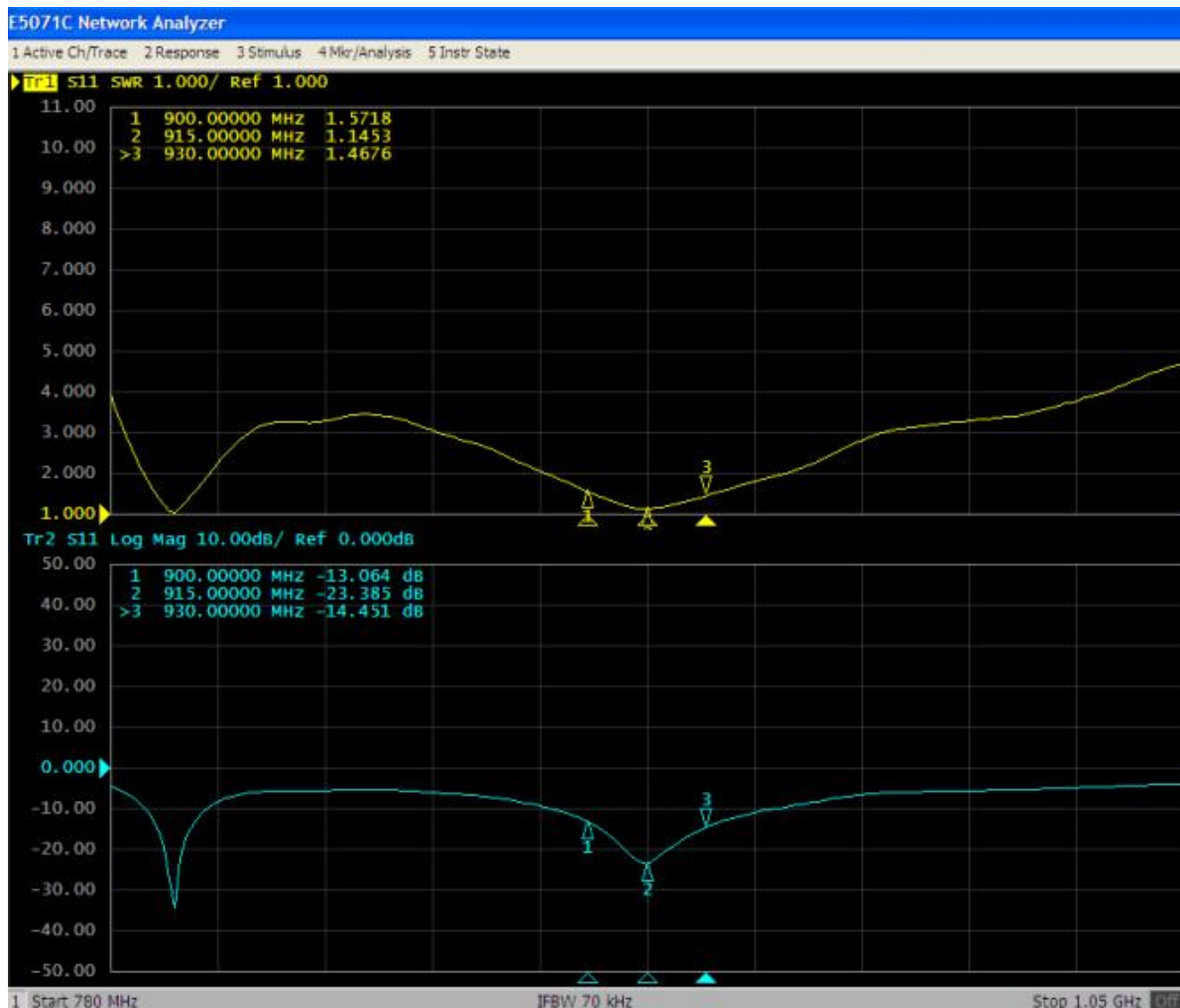
2. Characteristics and Reliability Test

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: $260 \pm 5^{\circ} \text{C}$; Duration: 5 seconds 温度 $260 \pm 5^{\circ} \text{C}$; 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. $\leq 5\%$ 符合待测物规范; 频率偏移 $\leq 5\%$	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	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

Product Number: AN0915-FPC08BX

Product Name: Antenna

3. Antenna - S Parameter Test Data



Product Number:AN0915-FPC08BX

Product Name: Antenna

4. Antenna - Radiation Pattern Test Data

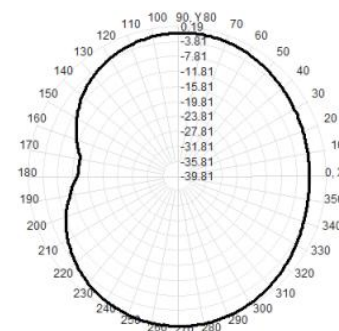
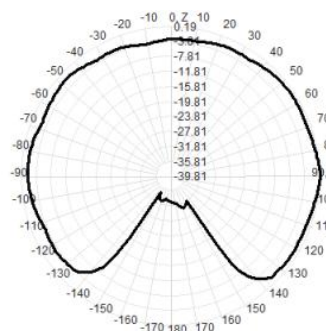
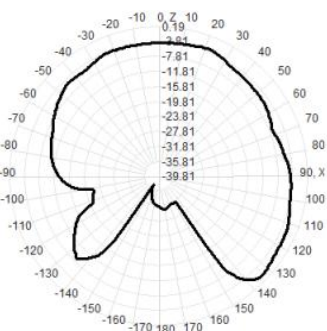
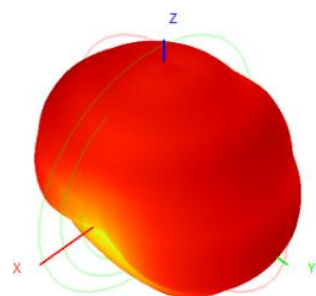
Frequency ID	1	2	3	4	5	6	7
Frequency (MHz)	900.0	905.0	910.0	915.0	920.0	925.0	930.0
Gain (dBi)	0.71	0.81	0.74	0.88	0.91	0.81	0.77
Efficiency (%)	42.53	44.01	45.75	47.23	48.76	48.74	46.92

XZ

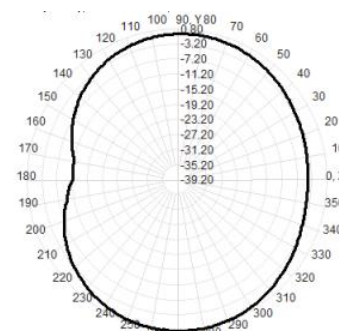
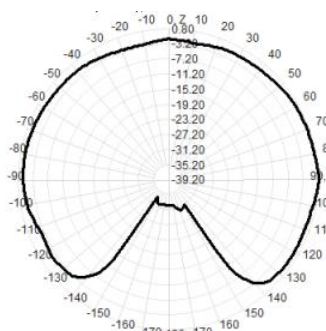
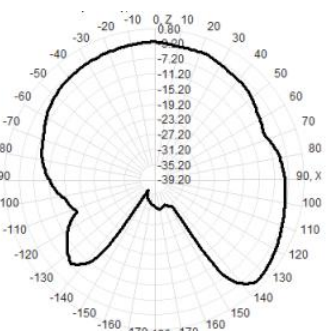
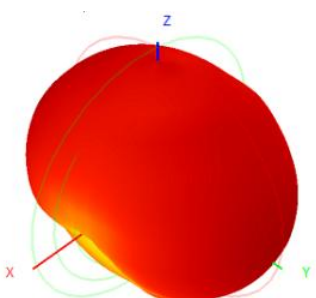
YZ

XY

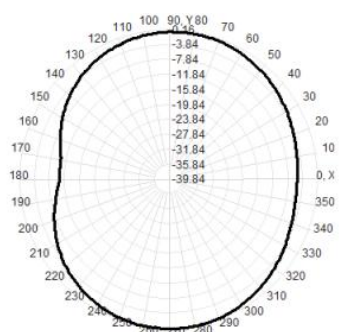
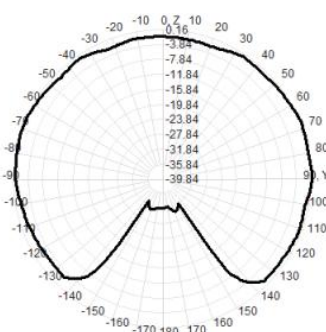
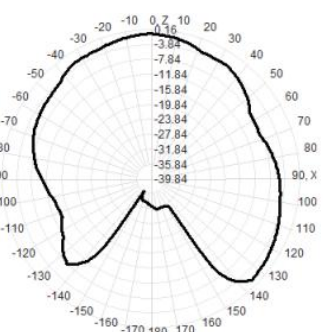
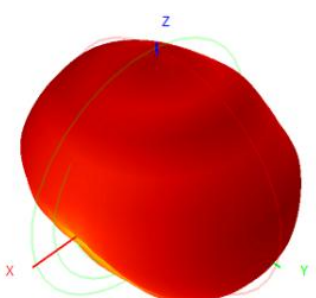
900MHz



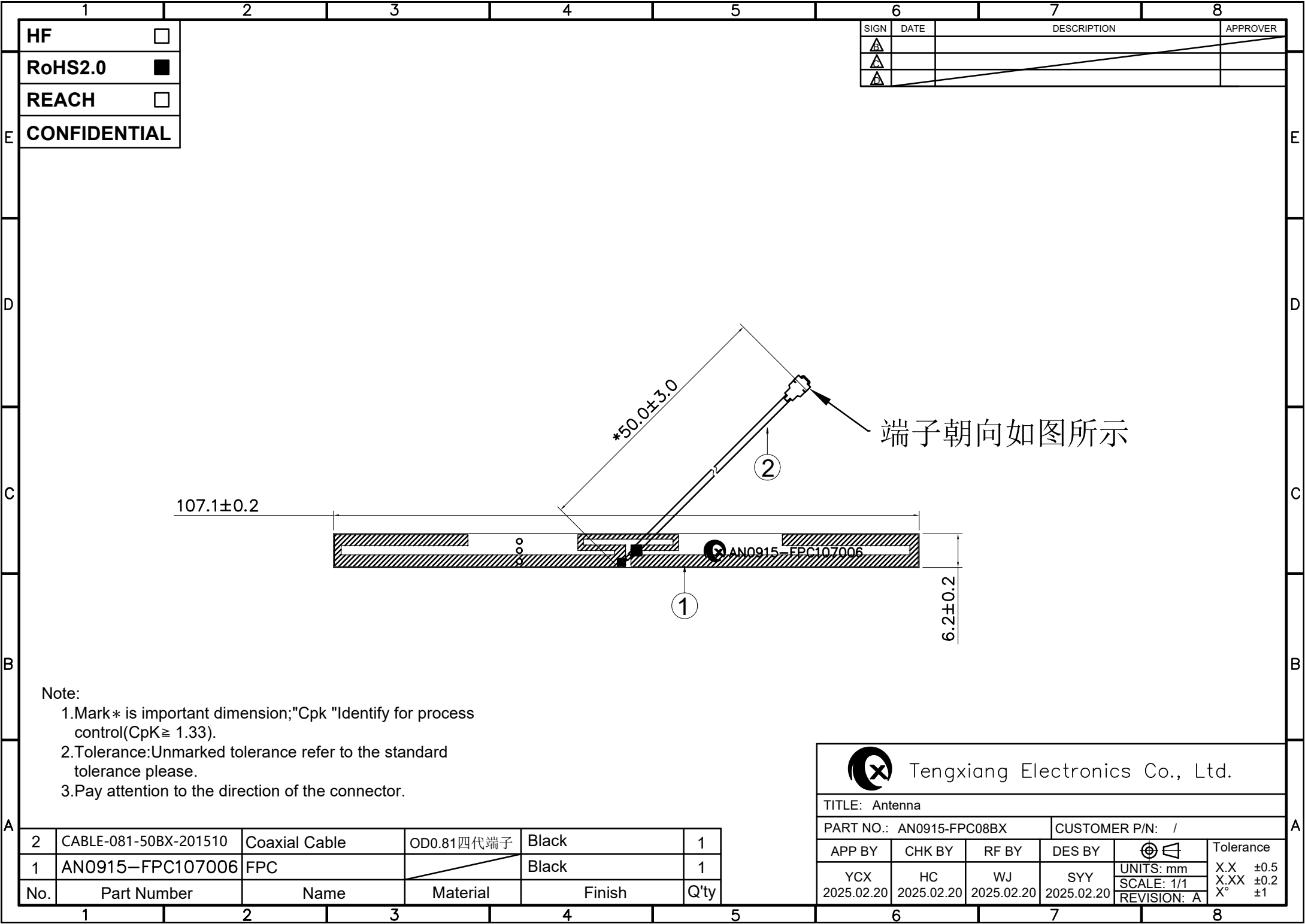
915MHz



930MHz



5. Mechanical Drawing See attached files



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 tolerance please.
- 3.Pay attention to the direction of the connector.

2	CABLE-081-50BX-201510	Coaxial Cable	OD0.81四代端子	Black	1
1	AN0915-FPC107006	FPC		Black	1
No.	Part Number	Name	Material	Finish	Q'ty

 Tengxiang Electronics Co., Ltd.					
TITLE: Antenna					
PART NO.: AN0915-FPC08BX			CUSTOMER P/N: /		
APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX	HC	WJ	SY	UNITS: mm	X.X ±0.5
2025.02.20	2025.02.20	2025.02.20	2025.02.20	SCALE: 1/1	X.XX ±0.2
				REVISION: A	X° ±1

产品包装规范

PACKING CRITERION

Date: 2025.02.12

Page: 1 of 1

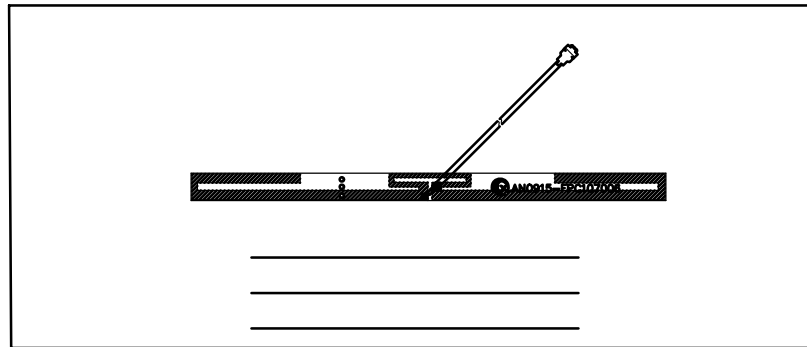
Part Number : AN0915-FPC08BX

Revision : A

Name: Antenna

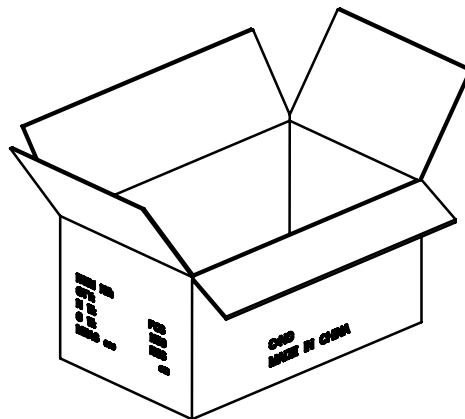
Customer : ALL

1 . Enter PE bag。



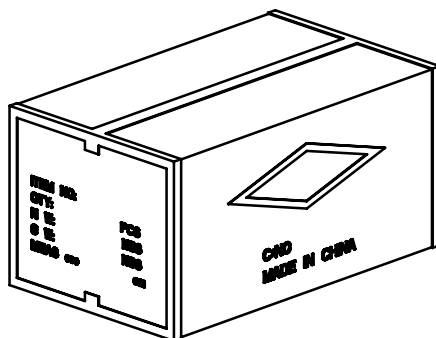
100pcs/ PE bag

2.PACKING。

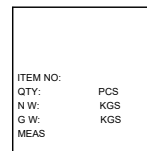


8000pcs/Carton

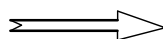
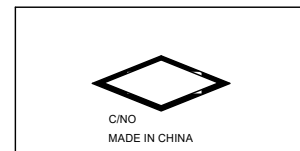
3. SEALING。



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : SY Y