



广东恩威视科技有限公司
Guangdong Envision Technology Limited

物料承认书

文件编号:RD-ACK-RC___-___ 版本:___

ComponentItem 物料编号	A30-AN2400-FPC291GX
PartName 物料名称	蓝牙 FPC 天线
Specification 物料规格	AN2400-FPC291GX RF 线长 90±3mm 天线 长 44±0.2mm 宽 8±0.2mm 黑色 频率 24500-2500MHz
有害环境物质管理要求 (依照最新法规公布实施的 管控标准和清单执行)	☒ RoHS 2.0(2011/65/EU) ☐ REACH ☐ CP65 (加州 65) ☐ CPSIA ☐ ASTM F963 ☐ EN71 ☐ MSDS ☐ TSCA ☐ 其它:
Datasheet 物料规格书	

COMPANY APPROVED 本厂承认

Approved By 批准:	Checked By 审核:	Compile By 编制:
Data 日期: 年 月 日	Data 日期: 年 月 日	Data 日期: 年 月 日

SUPPLIER CONFIRMED 供应商确认

有害环境物质测试报告编号:	CANEC2200386501,A2220120187101008E,A22201406 10101001C,CANEC2202119401,CANEC220941008S,C ANEC2218227002
供应商签名/公章:	东莞市海恒电子科技有限公司

变更履历表

版本	变更内容	工程师确认	审核/日期	批准/日期
1	新版发行	/	/	/
2				
3				
4				
5				

供应商对已承认物料做出工程变更或原料变更时，必须要本公司重新承认

Product Number:AN2400-FPC291GX
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	2024.11.6	初版	

Product Number:AN2400-FPC291GX

Product Name: Antenna

1. Specification

Sample Photo	
A. Electrical Characteristics	
Frequency 频率	2400-2500 MHz
S.W.R. 驻波比	<= 2.0
Antenna Gain 增益	1.92dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Cable Type 线材规格	OD1.13mm ,gray
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:AN2400-FPC291GX

Product Name: Antenna

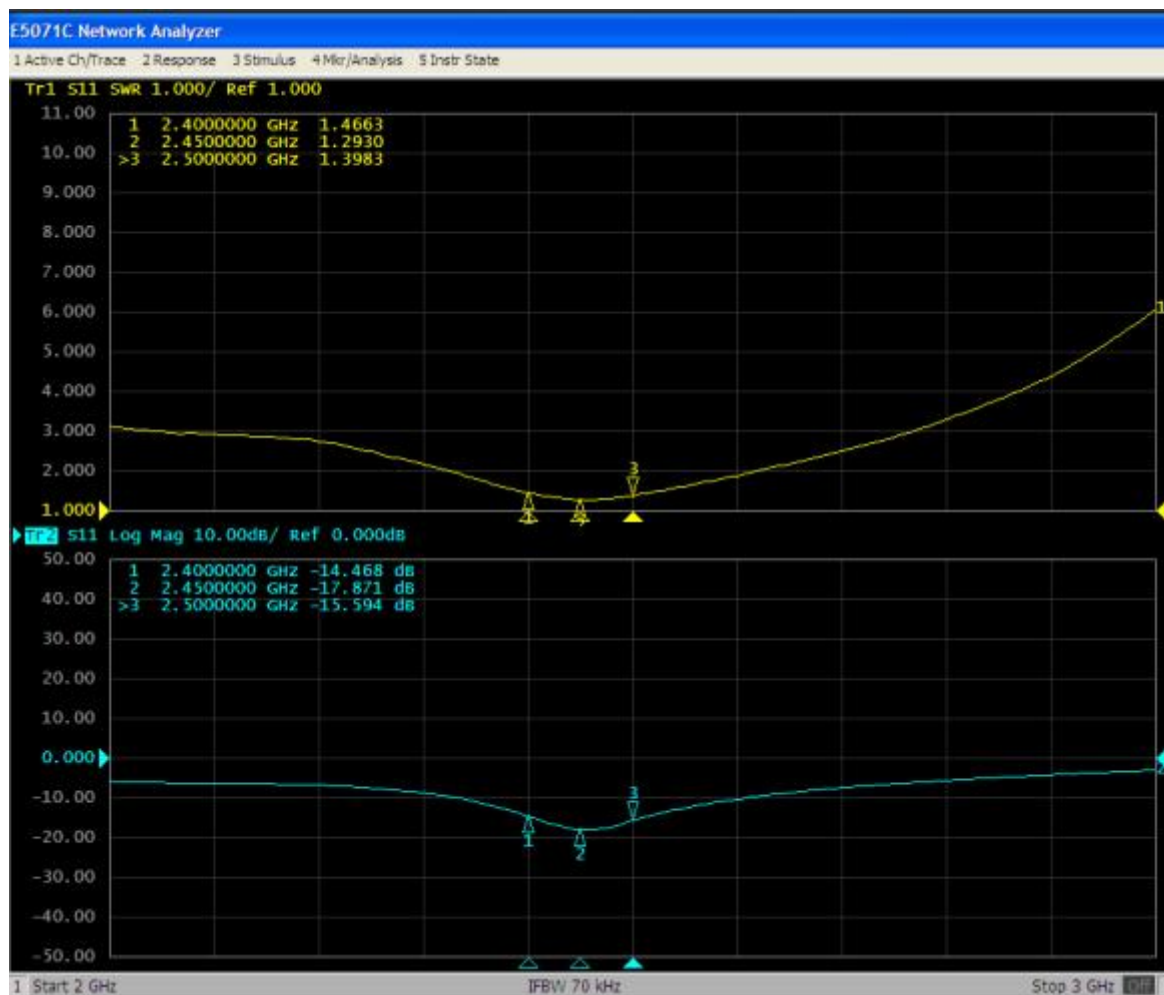
2. Characteristics and Reliability Test

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	Salt Spray 盐雾	GB / T 2423.17-2008 Temp: 35°C ; RH: $\geq 95\%$; NaCl solution: $\geq 5\%$; Time: 24H 温度 35°C ; 湿度 $\geq 95\%$; 盐水浓度 $\geq 5\%$; 测试 24H	1. No Visual Damage 2. Frequency Tol. $\leq 5\%$ 无明显外观不良; 频率偏移 $\leq 5\%$	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

Product Number:AN2400-FPC291GX

Product Name: Antenna

3. Antenna - S Parameter Test Data



Product Number:AN2400-FPC291GX

Product Name: Antenna

4. Antenna - Radiation Pattern Test Data

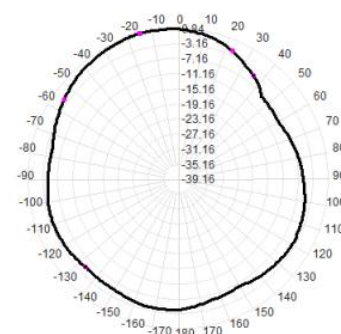
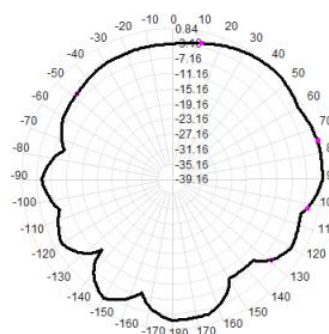
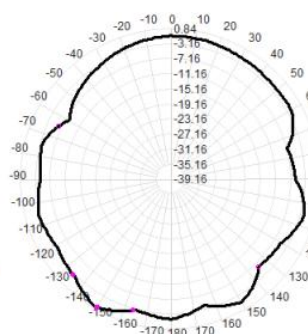
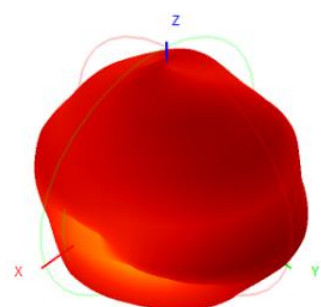
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	1.35	1.46	1.57	1.72	1.73	1.92	1.90	1.83	1.77	1.62	1.41
Efficiency (%)	43.83	45.40	44.46	47.17	47.97	47.98	47.93	46.32	46.16	44.02	43.12

XZ

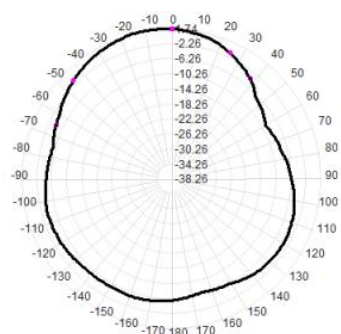
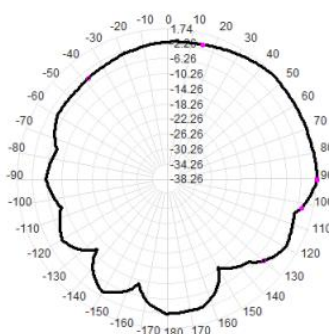
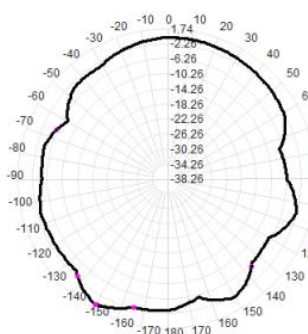
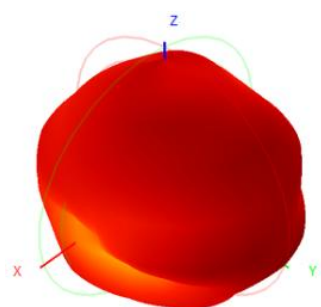
YZ

XY

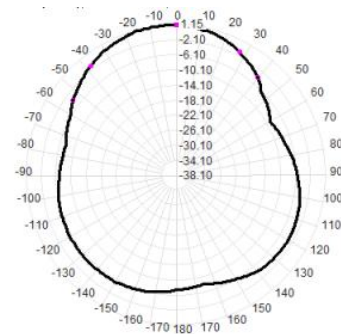
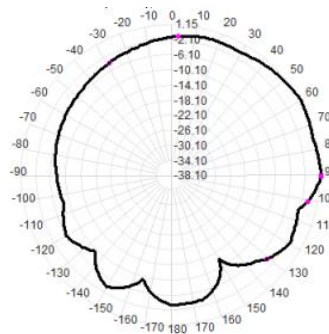
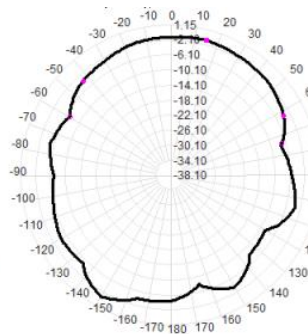
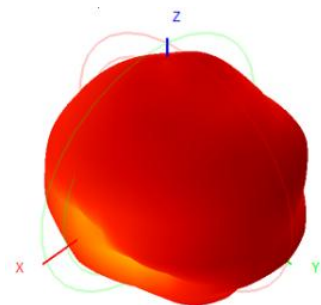
2400MHz



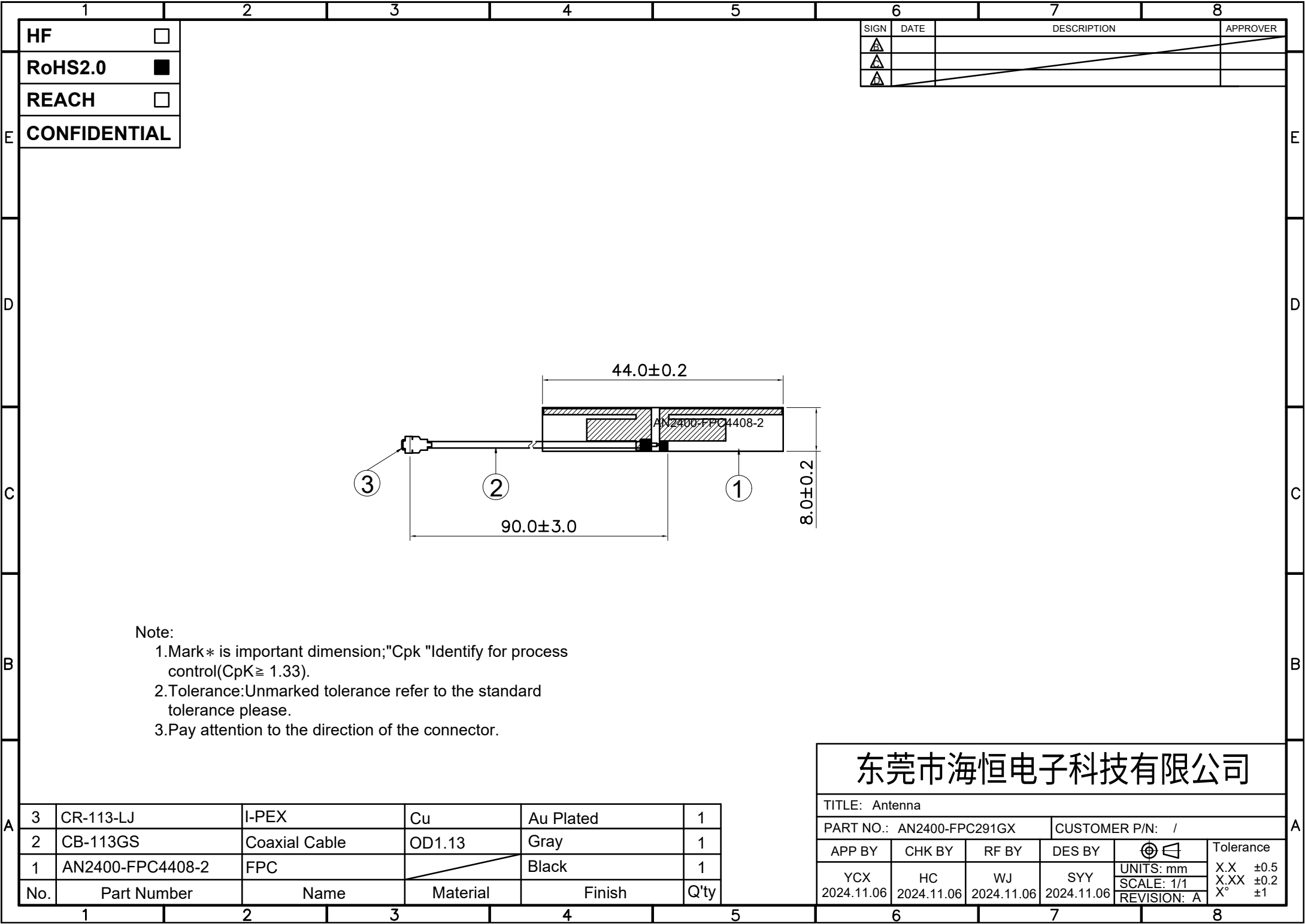
2450MHz



2500MHz



5. Mechanical Drawing See attached files



- 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.

3	CR-113-LJ	I-PEX	Cu	Au Plated	1
2	CB-113GS	Coaxial Cable	OD1.13	Gray	1
1	AN2400-FPC4408-2	FPC		Black	1
No.	Part Number	Name	Material	Finish	Q'ty

东莞市海恒电子科技有限公司					
TITLE: Antenna					
PART NO.: AN2400-FPC291GX			CUSTOMER P/N: /		
APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX	HC	WJ	SY		X.X ±0.5
2024.11.06	2024.11.06	2024.11.06	2024.11.06	UNITS: mm	X.XX ±0.2
				SCALE: 1/1	X° ±1
				REVISION: A	

产品包装规范

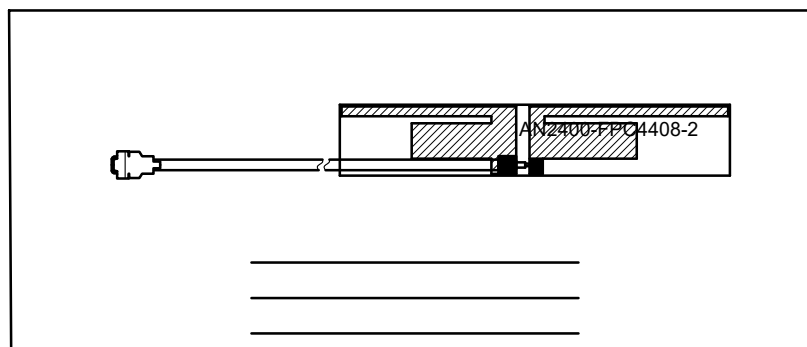
PACKING CRITERION

Date: 2024.11.06

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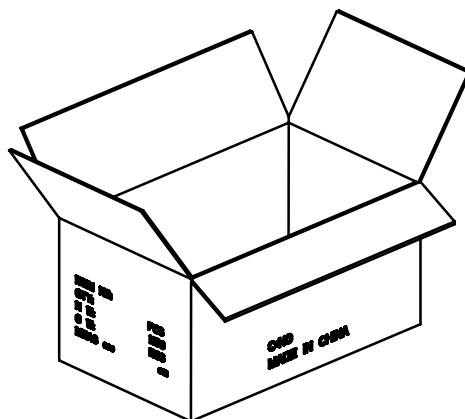
Part Number : AN2400-FPC291GX	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。



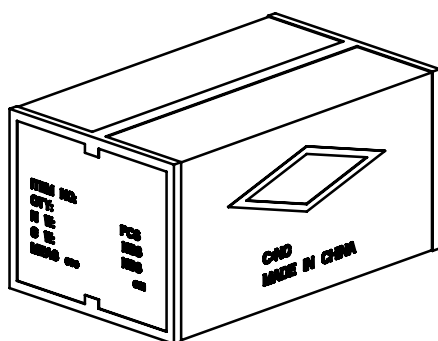
100pcs/ PE bag

2.PACKING 。

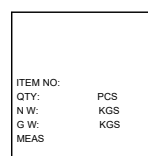


8000pcs/Carton

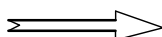
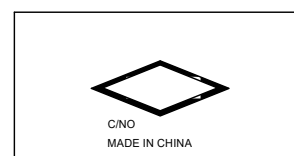
3. SEALING。



SIDE



FRONT



APPROVED BY : YCX CHECKED BY : HC DESIGNED BY : SY Y