

广州极飞科技股份有限公司

样品承认书

产品料号: 01-003-00488

产品版本: A0

产品名称: 4G内置FPC天线

产品规格: 4G FPC 天线 1.13mm 黑色线 L=55mm+IPEX

原料牌号:

表面处理: 丝印

供 应 商: 东莞市海恒电子科技有限公司

极飞签核		
结构设计	可靠性质量	中试审批
说明:		

供应商签核		
制作	审核	核准
邓文兵	胡超	陈鹏
说明:		

Product Number:AN0827-FPC147BX
Product Name: Antenna

Index:

- 1. Specification (规格)
- 2. Antenna - S Parameter Test Data (样品测试数据)
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- 5. Mechanical and Packing Drawing (图纸包装规范)

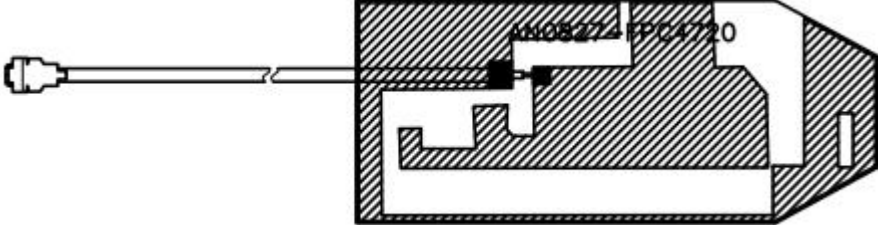
Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2024.11.16	初版	

Product Number:AN0827-FPC147BX

Product Name: Antenna

1. Specification

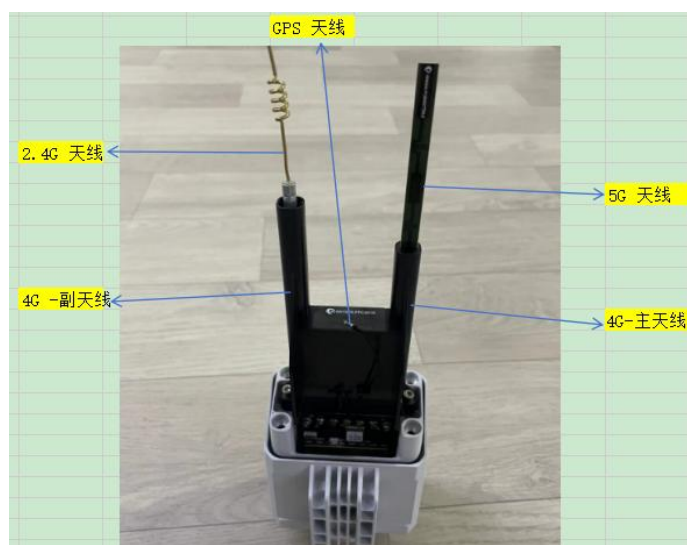
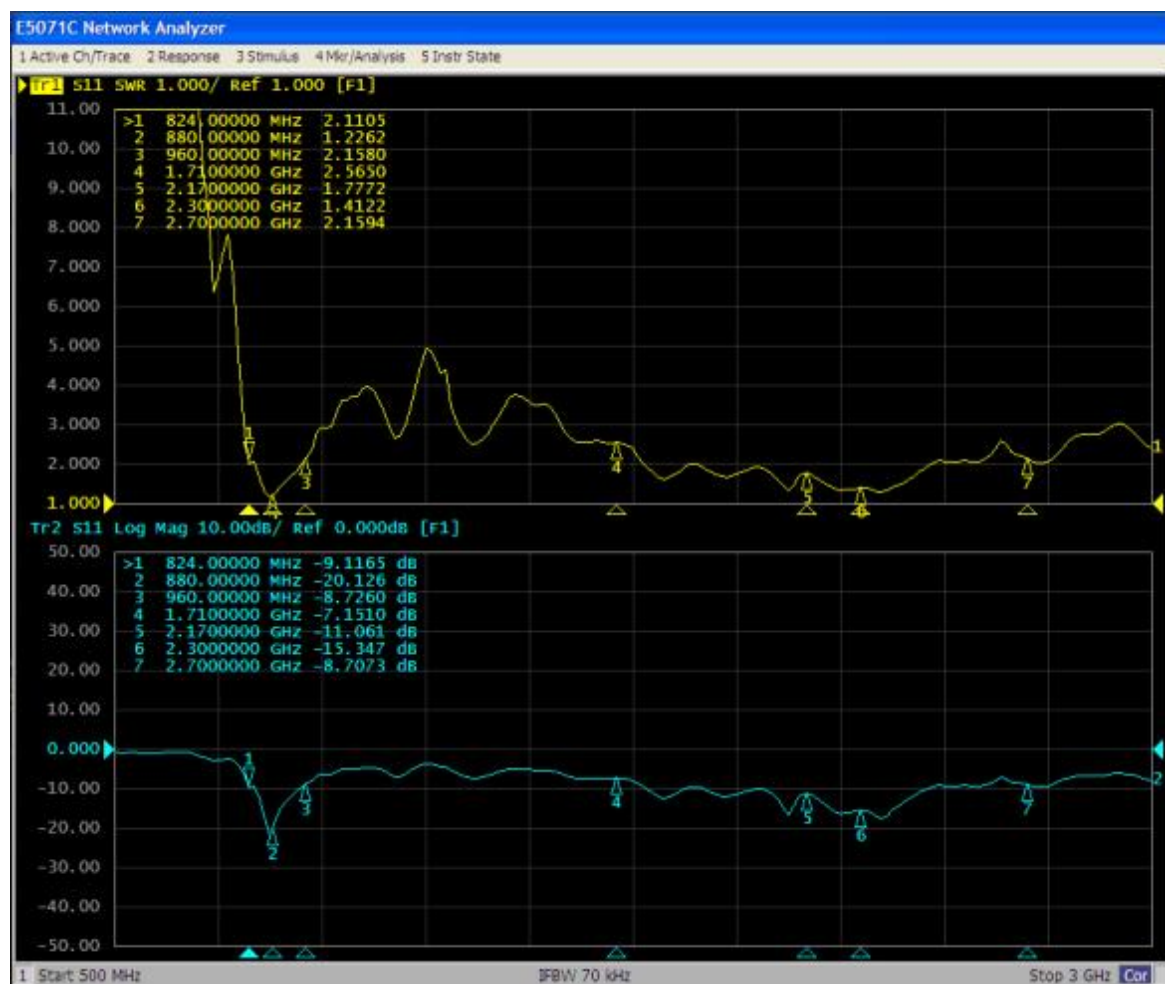
Sample Photo	
	
Frequency 频率	824-960 MHz/1710-2700 MHz
S.W.R. 驻波比	≤ 4.0 / ≤ 3.0
Antenna Gain 增益	0.94dBi / 2.81dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
Cable Type 线材规格	OD1.13mm ,Black
Connector Type 连接器规格	I-PEX
Pull Test 拉力	1KG
Salt Spray 盐雾	24H
Storage Temperature 存储温度	- 40℃ ~ +80℃
Operation Temperature 工作温度	- 40℃ ~ +80℃
Environment Protections 环保要求	RoHS

Product Number:AN0827-FPC147BX

Product Name: Antenna

2. Antenna - S Parameter Test Data

4G 主天线



Product Number:AN0827-FPC147BX
Product Name: Antenna

4G 副天线



3. Antenna - Radiation Pattern Test Data

4G-主天线

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Frequency (MHz)	824.0	858.0	892.0	926.0	960.0	1710.0	1756.0	1802.0	1848.0	1894.0	1940.0	1986.0	2032.0	2078.0	2124.0	2170.0	2300.0	2400.0	2500.0	2600.0	2700.0
Gain (dBi)	0.69	0.75	0.82	0.94	0.81	1.56	1.63	1.77	2.35	2.01	1.91	1.85	1.76	1.56	1.68	1.74	1.85	2.08	2.63	2.81	2.69
Efficiency (%)	33.04	34.10	37.56	38.42	36.66	48.93	49.00	50.58	51.82	52.43	53.42	52.48	51.51	51.49	52.50	54.69	55.60	54.59	62.42	60.03	55.53

4G-副天线

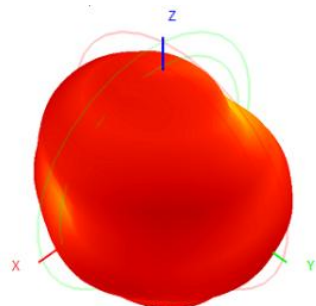
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Frequency (MHz)	824.0	858.0	892.0	926.0	960.0	1710.0	1756.0	1802.0	1848.0	1894.0	1940.0	1986.0	2032.0	2078.0	2124.0	2170.0	2300.0	2400.0	2500.0	2600.0	2700.0
Gain (dBi)	0.56	0.71	0.78	0.89	0.78	1.34	1.38	1.42	1.59	1.69	1.74	1.64	1.59	1.67	1.73	1.68	1.74	1.69	1.60	1.56	2.06
Efficiency (%)	34.52	33.52	36.98	37.62	34.58	47.59	48.38	49.68	50.46	49.26	50.48	51.72	51.83	52.19	50.42	51.78	53.09	51.86	53.99	50.84	49.58

Product Number:AN0827-FPC147BX

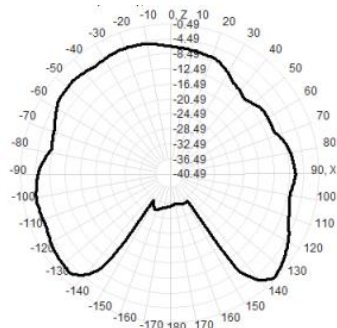
Product Name: Antenna

4G 主天线

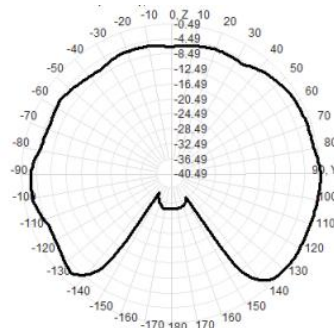
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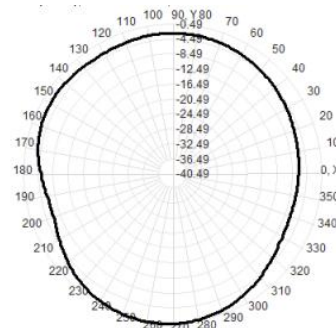
XZ



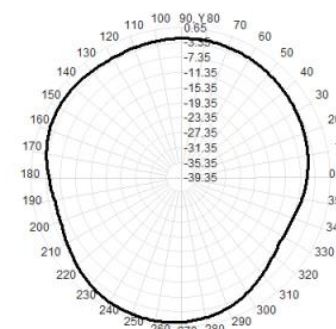
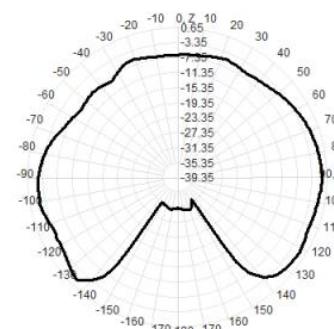
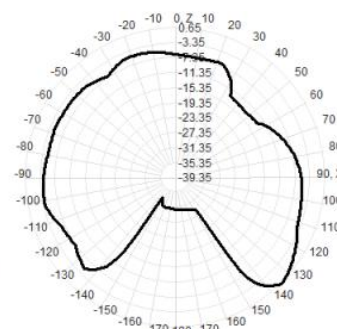
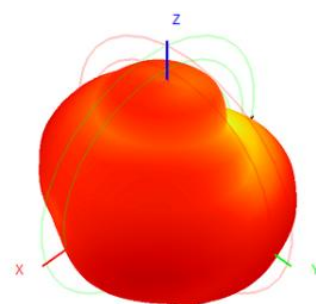
YZ



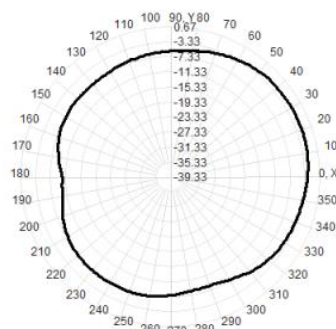
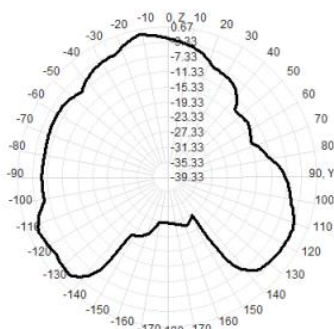
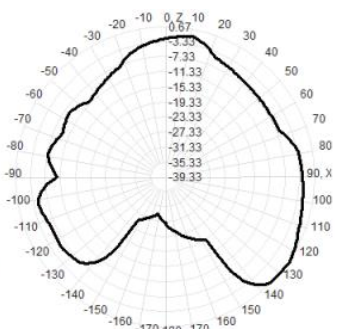
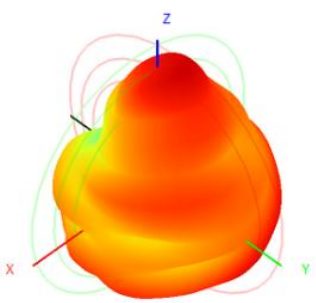
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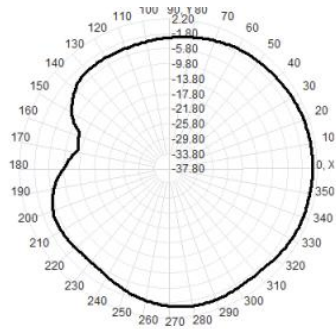
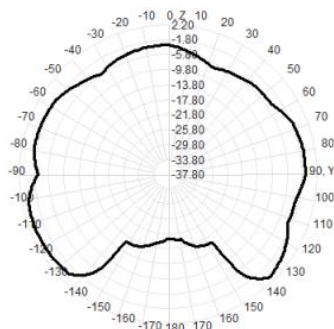
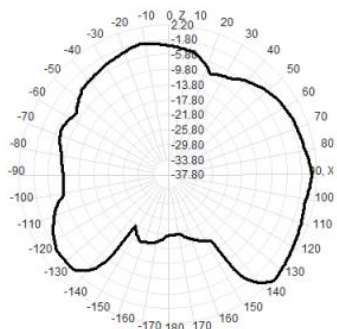
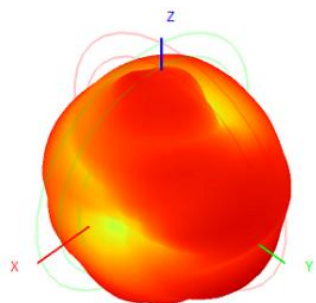
960MHz



1710MHz



2700MHz

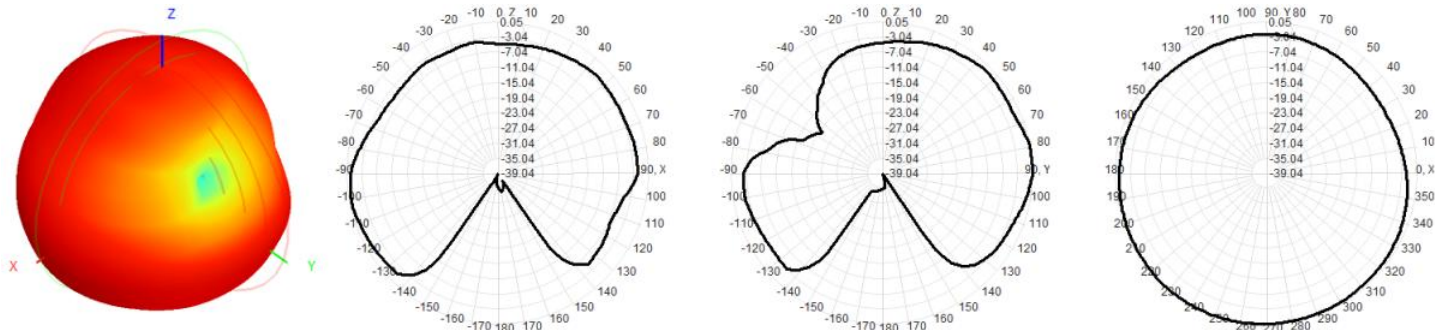


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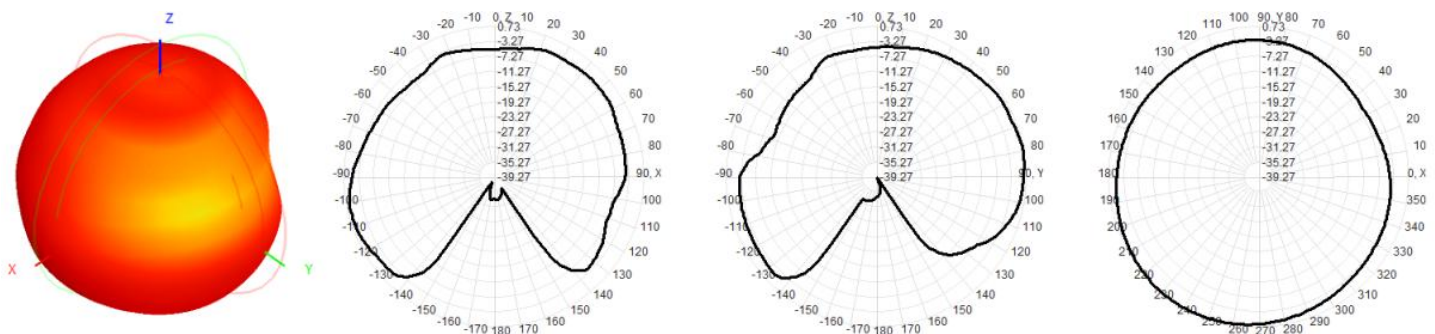
Product Name: Antenna

4G 副天线

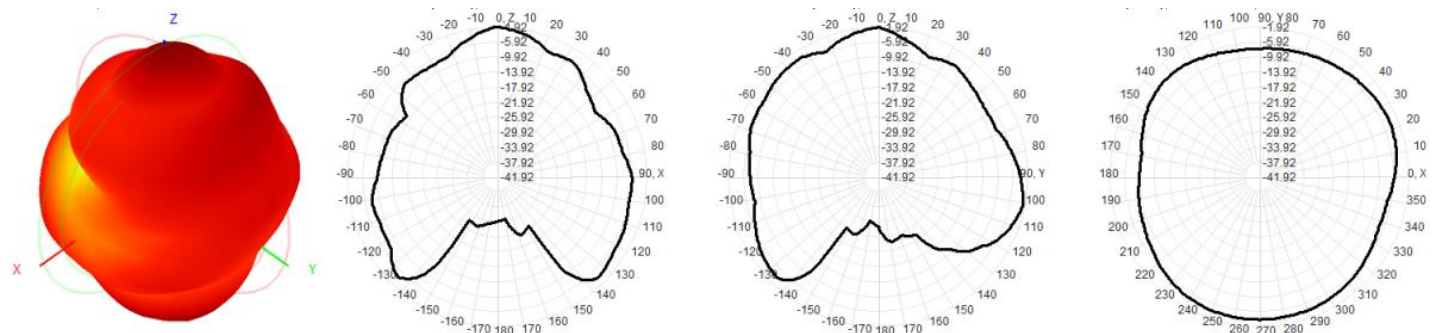
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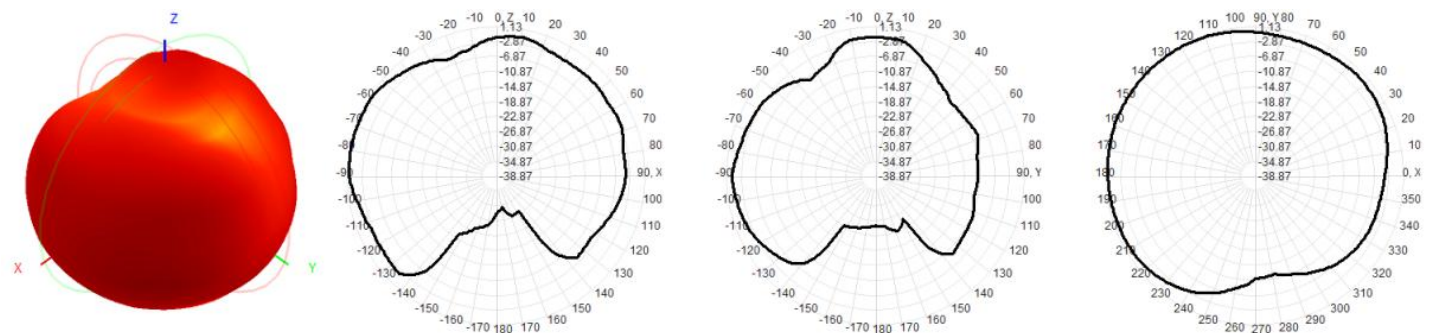
960MHz



1710MHz



2700MHz



4. Mechanical Drawing See attached files

1		2		3		4		5		6		7		8																										
HF ☐										SIGN		DATE		DESCRIPTION		APPROVER																								
RoHS2.0 ☒										△																														
REACH ☐										△																														
CONFIDENTIAL										△																														
55.0±3.0 47.0±0.2 10.0 20.0±0.2 AN0827-FPC4720 ③ ② ① 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-ZP-A		I-PEX		Cu		Au Plated		1		东莞市海恒电子科技有限公司 TITLE: Antenna PART NO.: AN0827-FPC147BX CUSTOMER P/N: / <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>XCH</td><td>SY</td><td>UNITS: mm</td><td>X.X ±0.5</td></tr><tr><td>2024.11.15</td><td>2024.11.15</td><td>2024.11.15</td><td>2024.11.15</td><td>SCALE: 1/1</td><td>X.XX ±0.2</td></tr><tr><td colspan="5">REVISION: A</td><td>X° ±1</td></tr></table>					APP BY	CHK BY	RF BY	DES BY	⊕ ◀	Tolerance	YCX	HC	XCH	SY	UNITS: mm	X.X ±0.5	2024.11.15	2024.11.15	2024.11.15	2024.11.15	SCALE: 1/1	X.XX ±0.2	REVISION: A					X° ±1
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REVISION: A					X° ±1																																			
2		CB-113BS		Coaxial Cable		OD1.13		Black		1																														
1		AN0827-FPC4720		FPC				Black		1																														
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产品包装规范

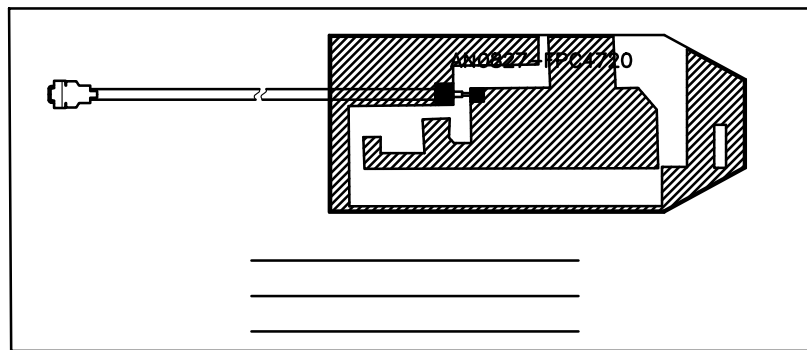
PACKING CRITERION

Date: 2024.11.15

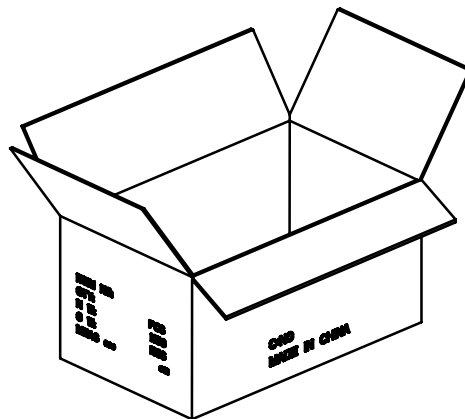
Page: 1 of 1

Part Number : AN0827-FPC147BX	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。

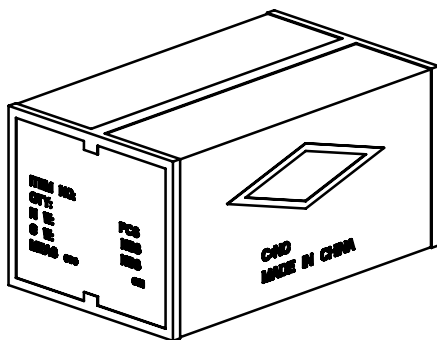


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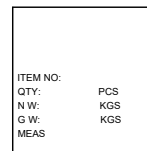


8000pcs/Carton

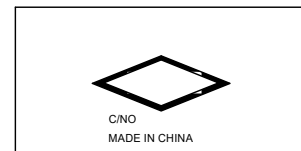
3. SEALING。



SIDE



FRONT



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