

Product part number:01-003-00479

antenna specification:2.4G/5G FCB antenna 1.13mm black line
L=100mm+IPEX

manufacture:

Guangzhou Xaircraft Technology CO.,LTD

Block C, No.115, Gaopu Road, Tianhe District, Guangzhou City,
Guangdong, P.R.China

Product Number:AN2450-FPC276GX
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)

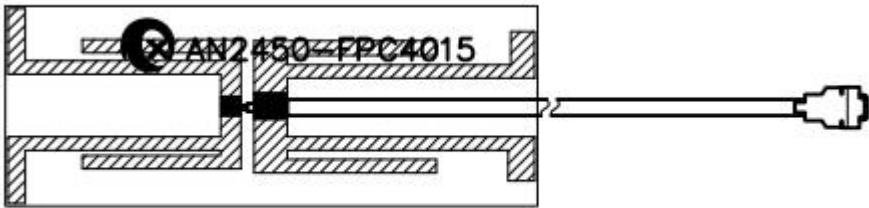
Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2024.10.28	初版	

Product Number:AN2450-FPC276GX

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
Antenna Gain 增益	4.23dBi /3.99dBi
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:AN2450-FPC276GX

Product Name: Antenna

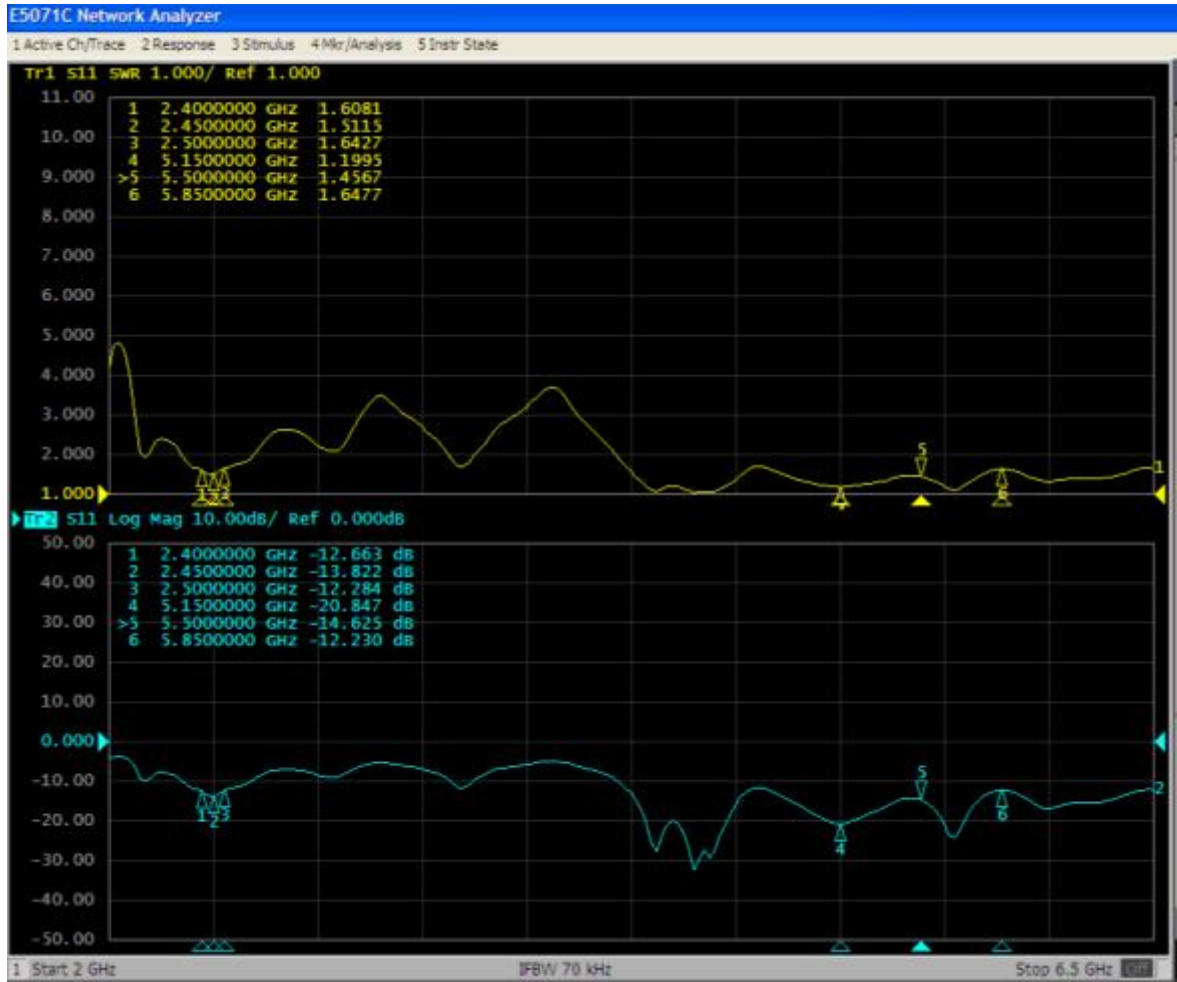
2. Characteristics and Reliability Test

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:AN2450-FPC276GX

Product Name: Antenna

3. Antenna - S Parameter Test Data



Product Number:AN2450-FPC276GX

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)	3.15	3.19	3.28	3.44	3.69	3.95	4.15	4.23	4.12	4.08	4.01
Efficiency (%)	50.03	51.94	52.44	52.61	51.83	51.54	50.26	51.61	52.70	52.86	52.79

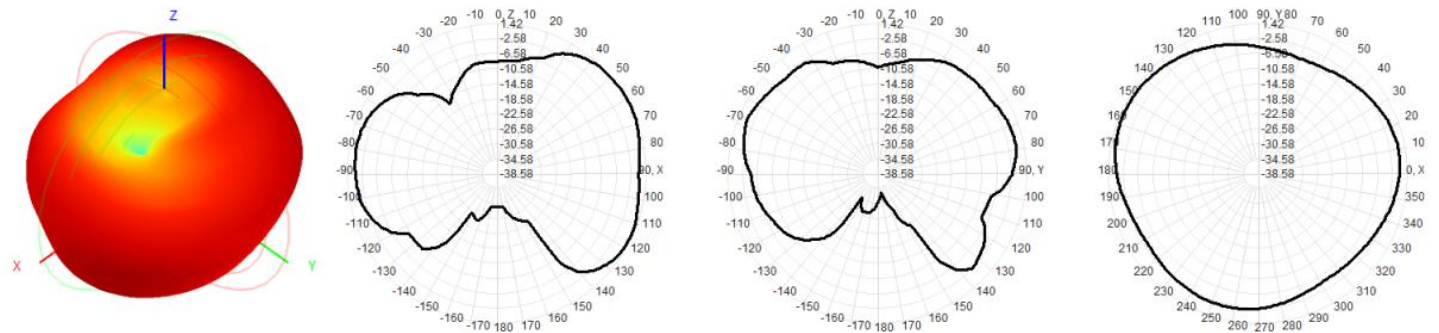
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
2.29	2.77	2.92	3.85	3.96	3.92	3.85	3.99	3.51	2.84	2.41	2.30	2.25	2.39	2.61
50.15	51.35	50.13	51.90	51.62	52.24	53.69	54.14	53.93	56.33	56.44	56.11	54.14	52.10	50.82

XZ

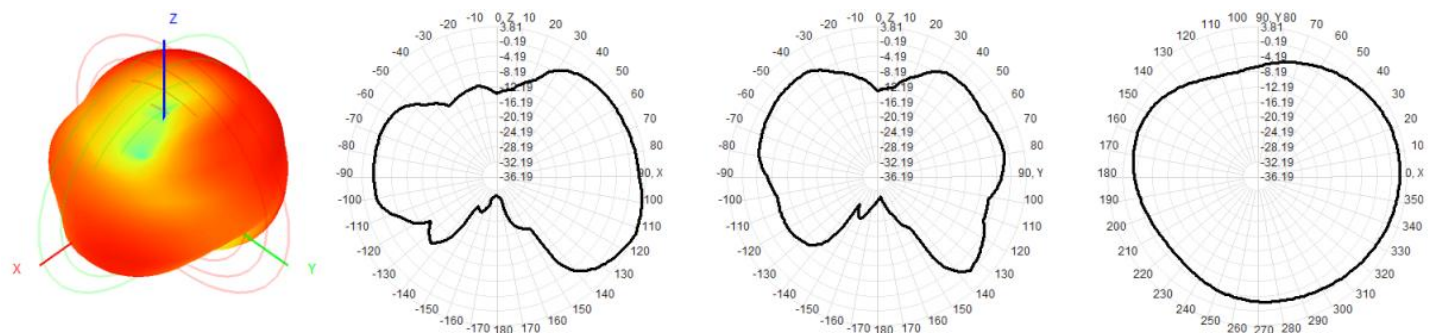
YZ

XY

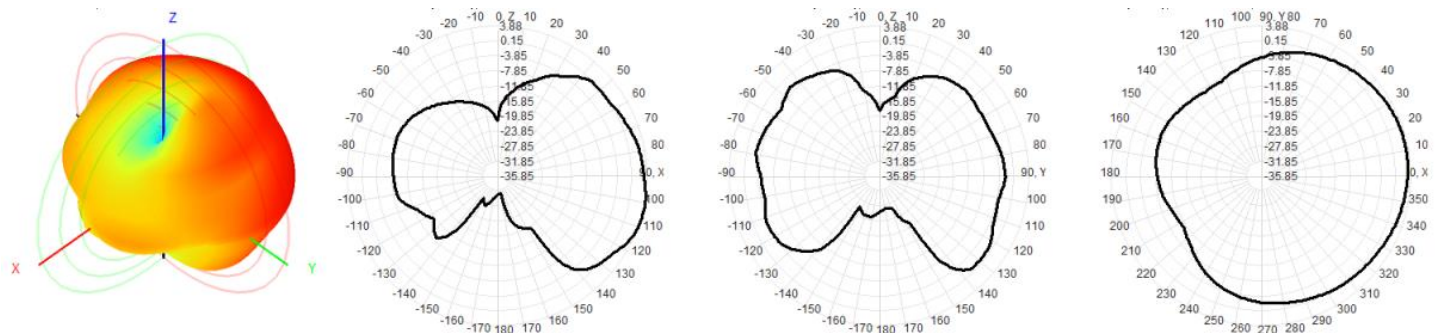
2400MHz



2450MHz

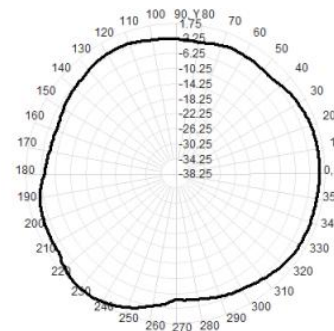
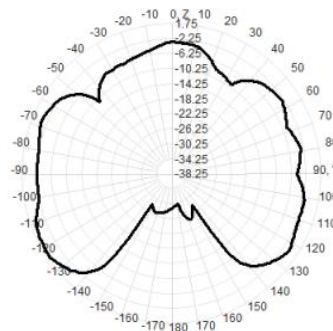
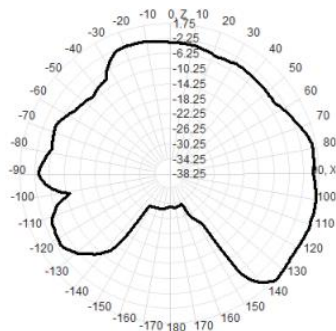
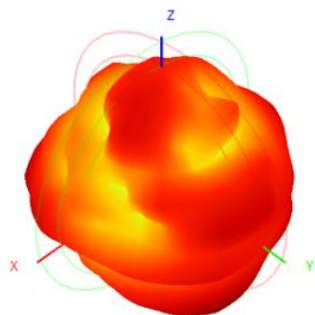


2500MHz

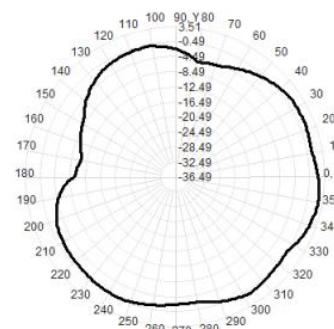
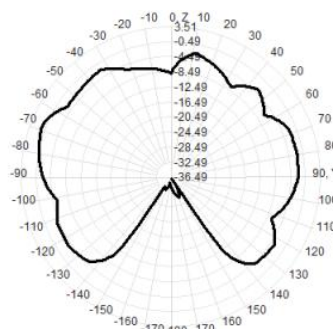
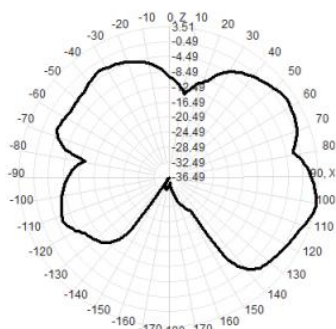
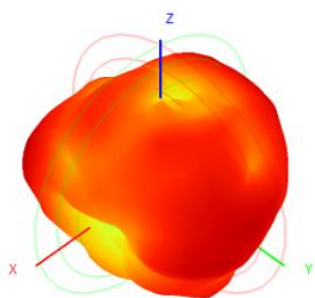


Product Number:AN2450-FPC276GX
Product Name: Antenna

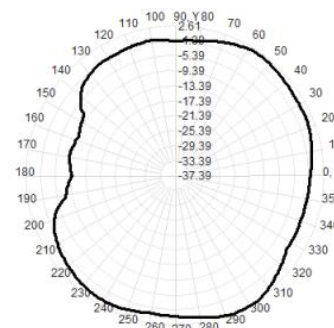
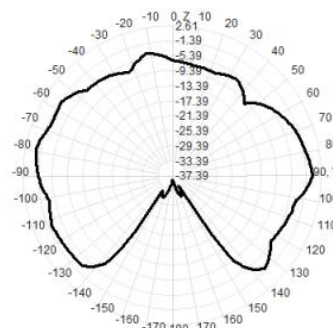
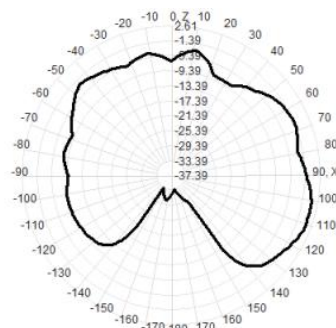
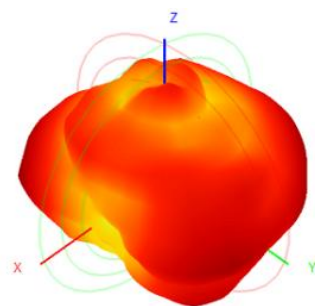
5150MHz



5550MHz



5850MHz



5. Mechanical Drawing See attached files

产品包装规范

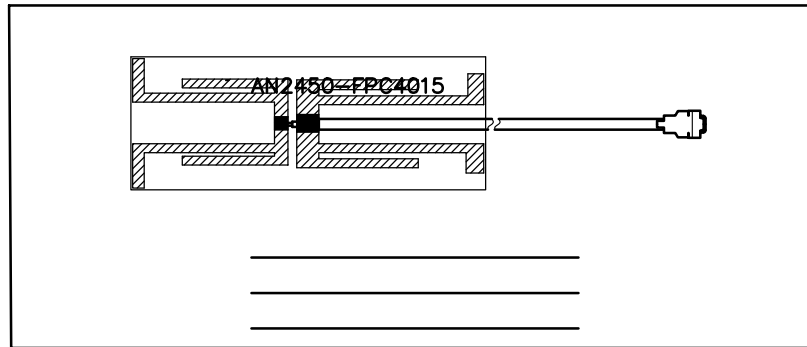
PACKING CRITERION

Date: 2024.10.28

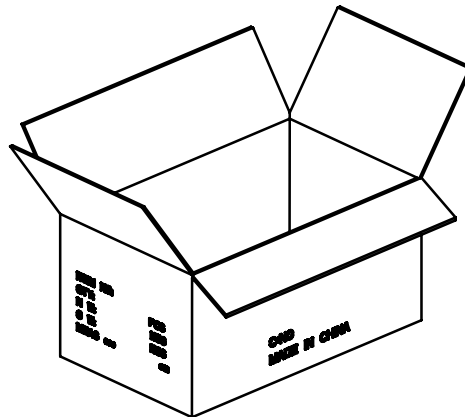
Page: 1 of 1

Part Number : AN2450-FPC276GX	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。

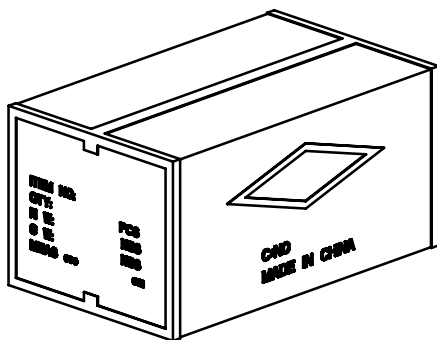


2.PACKING。

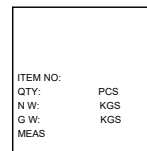


8000pcs/Carton

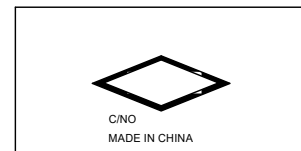
3. SEALING。



SIDE



FRONT



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