



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

陈琳

Product Number: AN2450-FPC122BO

Product Name: Antenna

Specification For Approval

Date: 2023.11.8

正本

Version: 1.0

外来文件

客户名称

Customer:

客户料号

Customer P/N:

腾祥料号

TX P/N:

AN2450-FPC122BO

规格描述

Description:

2.4G/5G FPC 天线 1.13mm 黑色线 L=98mm

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	梁凤珍	Q.C.DEPT. 品管	
APPROVED BY 核准	韦佳	APPROVEDBY 核准	



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Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN2450-FPC122B0

Product Name: Antenna

正本

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外来文件

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Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2023.11.8	初版	

Product Number: AN2450-FPC122B0

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 / ≤ 2.0
Antenna Gain 增益	2.44dBi / 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 ,Black
Connector Type 连接器规格	/
C. Environmental	
Storage Temperature 存储温度	- 40°C ~ +80 °C
Operation Temperature 工作温度	- 40°C ~ +80 °C

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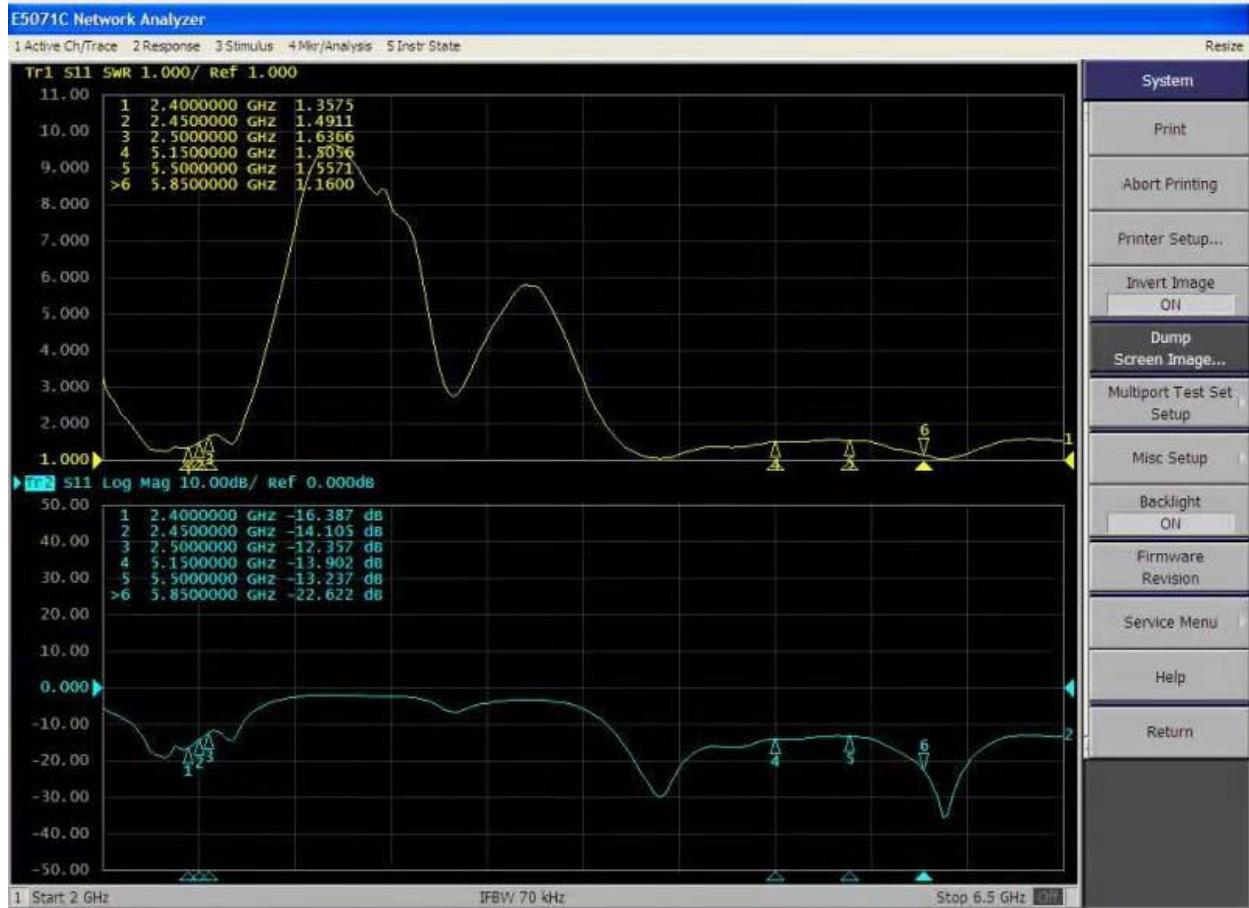
2. Characteristics and Reliability Test

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 Solderability 可焊性	GB / T2423.28-2005 Temp: 260±5° C; Duration: 5 seconds 温度 260±5° 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. ≤5% 符合待测物规范; 频率偏移 ≤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: ≥ 95%; NaCl solution: ≥ 5%; Time: 24H 温度 35°C; 湿度 ≥95%; 盐水浓度 ≥5%; 测试 24H	1. No Visual Damage 2. Frequency Tol. ≤5% 无明显外观不良; 频率偏移 ≤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

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3. Antenna - S Parameter Test Data



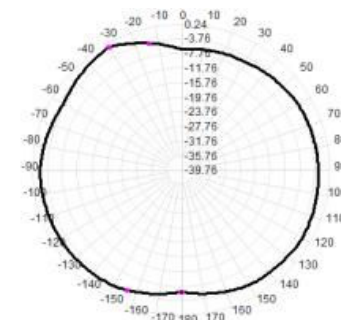
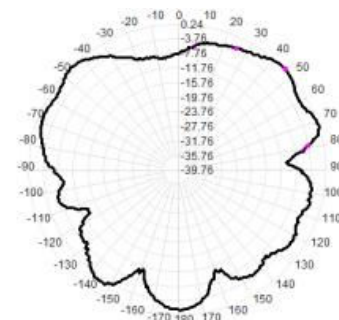
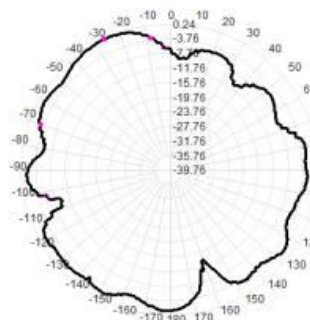
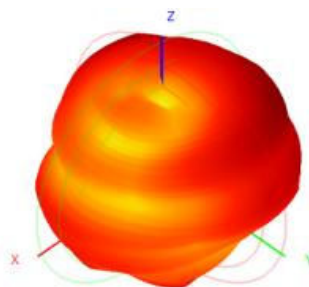
4. Antenna - Radiation Pattern Test Data

Frequency ID	1	6	11	12	20	26
Frequency (MHz)	2400.0	2450.0	2500.0	5150.0	5550.0	5850.0
Gain (dBi)	2.30	2.44	2.04	3.31	3.99	2.77
Efficiency (%)	49.70	52.40	51.57	73.93	74.33	64.48

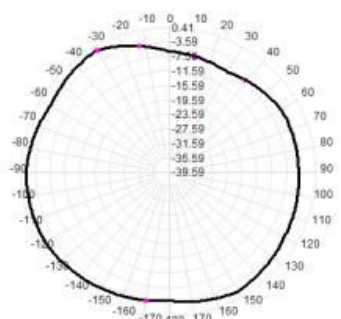
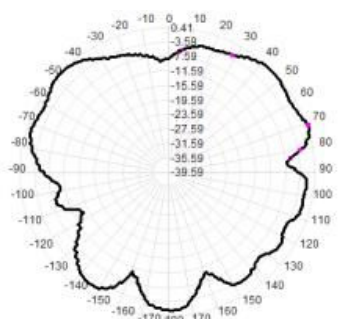
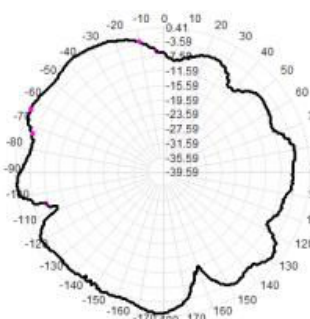
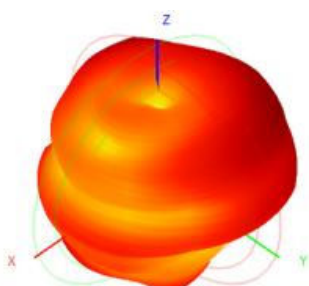
Product Number:AN2450-FPC122BO

Product Name: Antenna

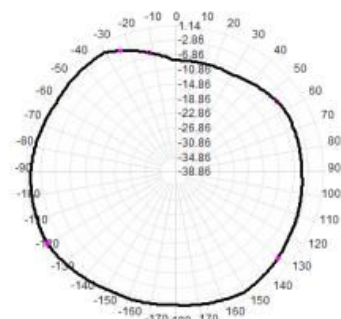
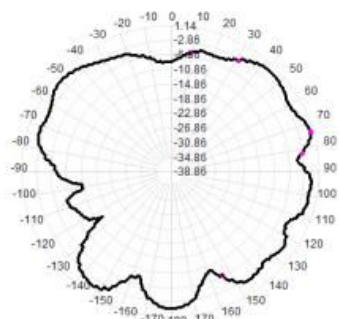
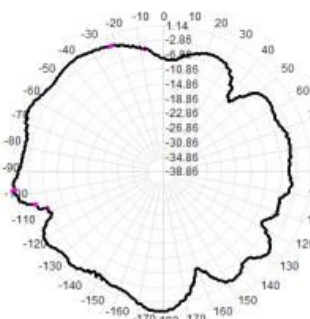
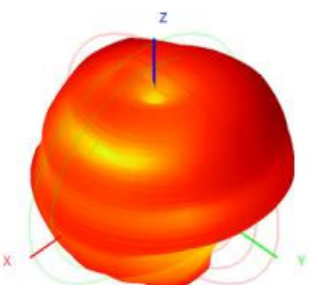
2400MHz



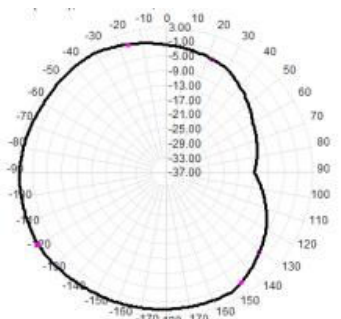
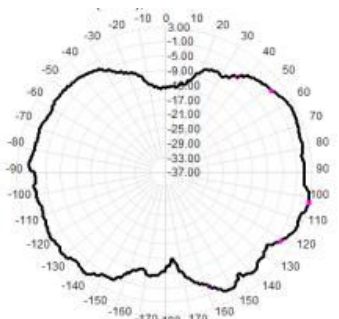
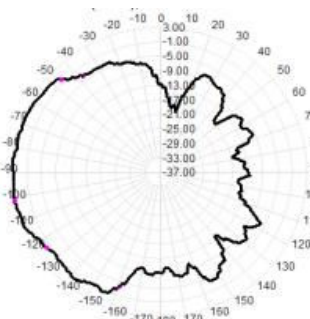
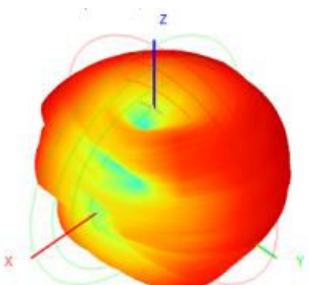
2450MHz



2500MHz



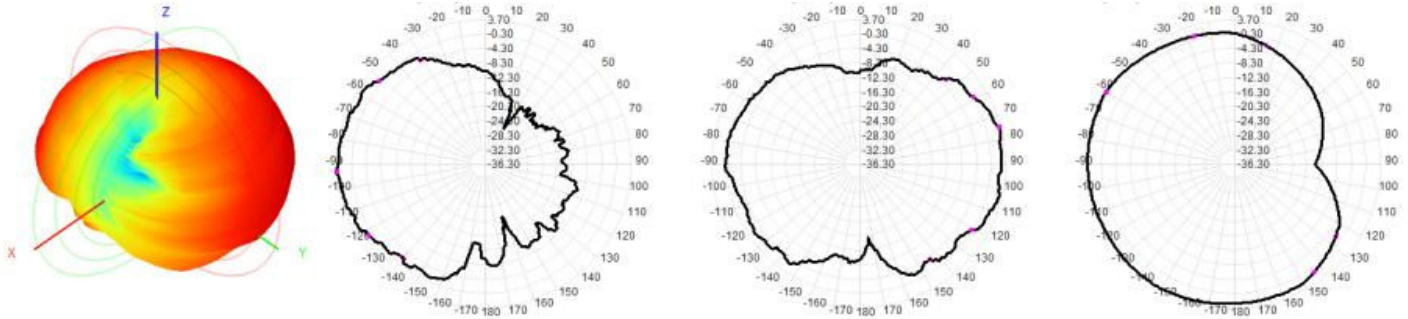
5150MHz



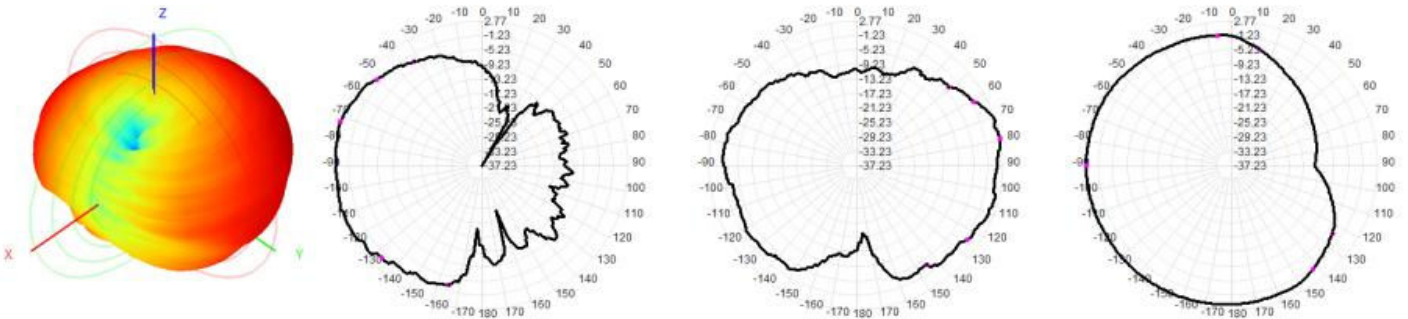
Product Number:AN2450-FPC122B0

Product Name: Antenna

5550MHz



5850MHz



5. Mechanical Drawing See attached files

1		2		3		4		5		6		7		8	
HF		☐								SIGN		DATE		DESCRIPTION	
RoHS 2.0		☒								A		SY		线长由110mm改为98mm	
REACH		☐								A					
CONFIDENTIAL		☐								A					
E															
D															
C															
B															
A															
Tengxiang Electronics Co., Ltd.															
TITLE: Antenna															
PART NO.: AN2450-FPC122BO CUSTOMER P/N: /															
APP BY		CHK BY		RF BY		DES BY				DES BY				Tolerance	
YCX		WJ		HC		SY				UNITS: mm				X.X ±0.3	
2023.11.08		2023.11.08		2023.11.08		2023.11.08				SCALE: 1/1				X.XX ±0.1	
										REVISION: B				X° ±1	
8		6		7		8									

11.7±0.2

32.2±0.2

AN2450-FPC322117-2

1

2

98.0±3.0

1.5-1.5-1.0

背面离型纸刀口

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	CB-113BS	Coaxial Cable	OD1.13	Black	1
1	AN2450-FPC322117-2	FPC		Black	1
No.	Part Number	Name	Material	Finish	Q'ty
1		2	3	4	5

产品包装规范

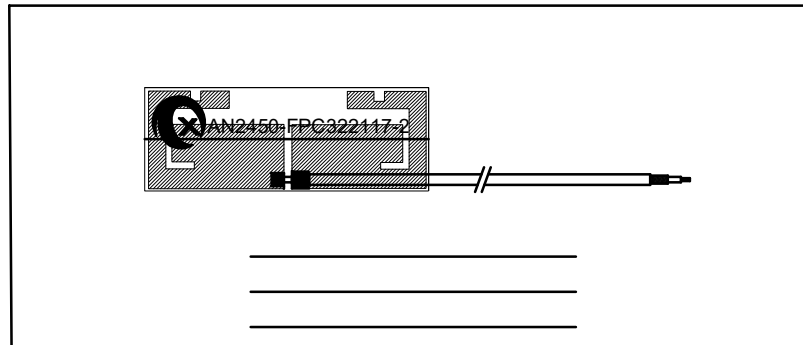
PACKING CRITERION

Date: 2023.11.08

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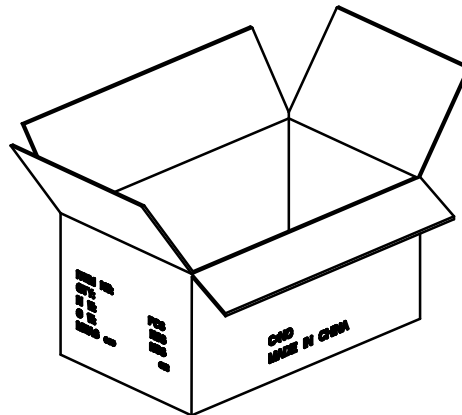
Part Number : AN2450-FPC122BO	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag 。



100pcs/ PE bag

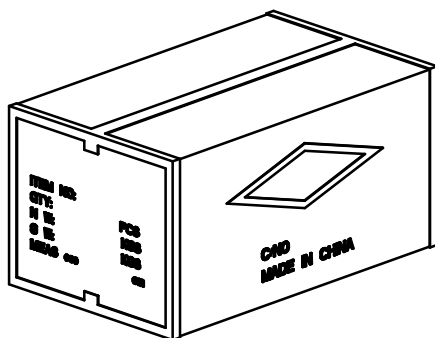
2.PACKING 。



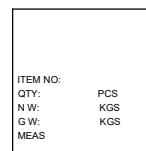
8000pcs/Carton

正本
外来文件

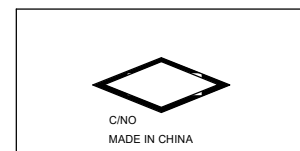
3. SEALING 。



SIDE



FRONT



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