Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number:AN2450-FPC133BO
Product Name: Antenna

Specification For Approval

Date: 2023.11.1

Version: 1.0

客 户 名 称
Customer： 四海伽蓝

客 户 料 号
Customer P/N：

腾 祥 料 号
T X P/N： **AN2450-FPC133BO**

规 格 描 述
Description： **2.4G FPC 天线 1.13mm 黑色线 L=170mm**

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	

腾祥电子有限公司 工程课

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Product Number:AN2450-FPC133BO
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	2023.11.1	初版	

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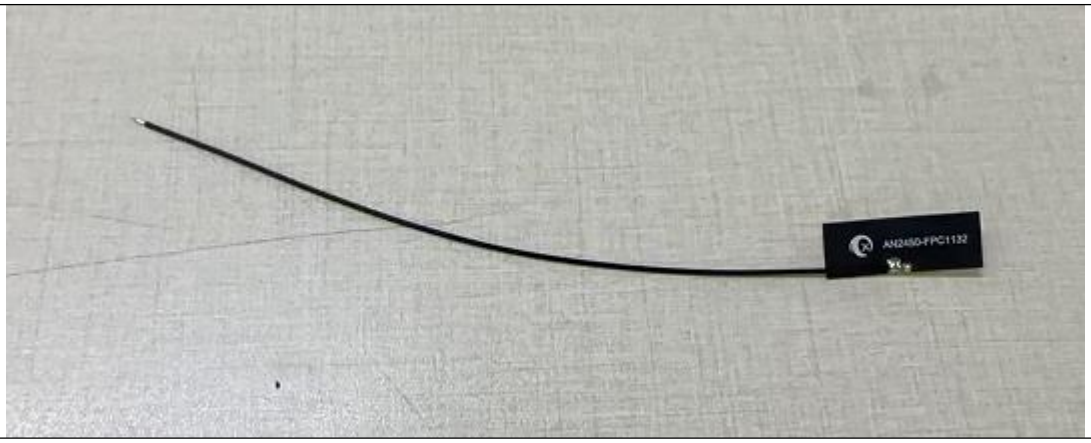
Product Number:AN2450-FPC133BO

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	**3.91dBi**
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	**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-FPC133BO
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±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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Product Name: Antenna

3. Antenna - S Parameter Test Data

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)	3.55	3.71	3.58	3.61	3.76	3.91	3.76	3.50	3.24	3.26	3.17
Efficiency (%)	55.06	58.04	57.94	58.32	60.35	61.86	59.47	56.34	54.11	54.82	55.68

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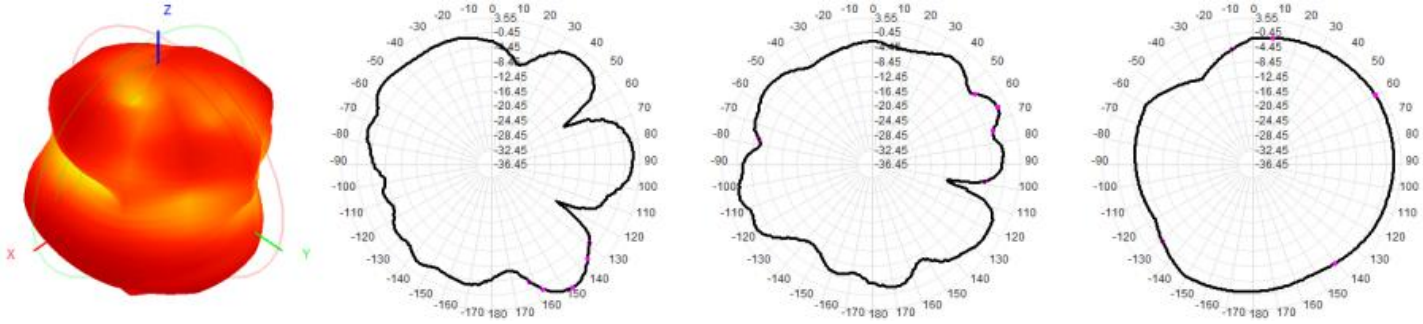
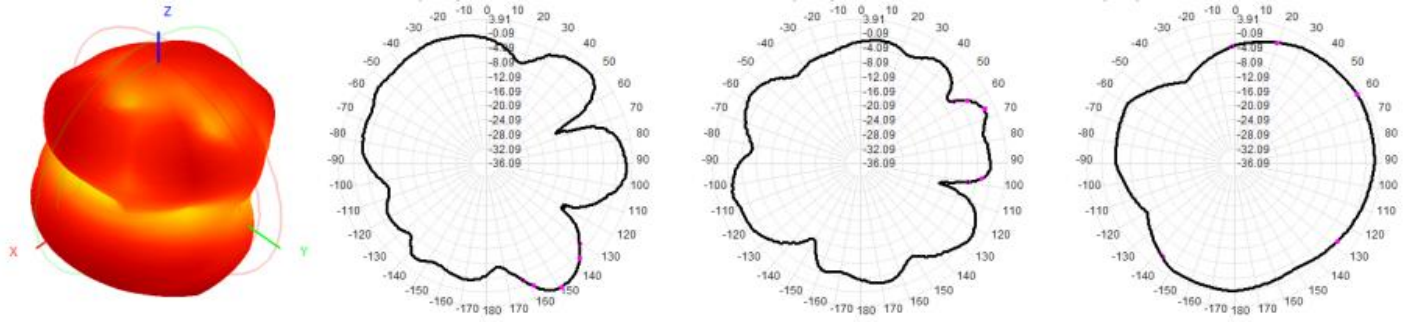
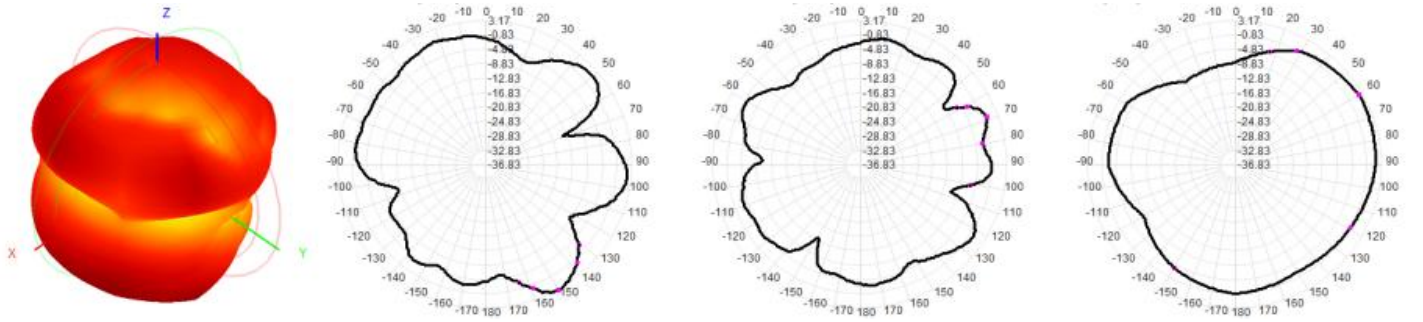
2400MHz



2450MHz



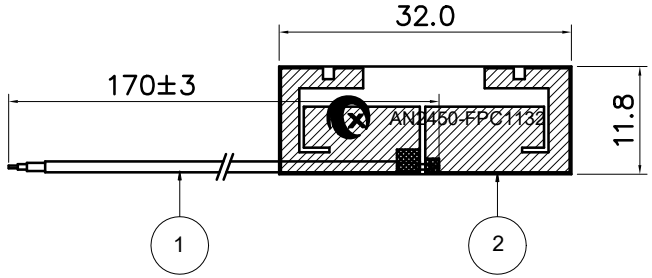
2500MHz



5. Mechanical Drawing See attached files

HF	☐
RoHS2.0	■
REACH	☐
CONFIDENTIAL	

SIGN	DATE	DESCRIPTION	APPROVER
A			
A			
A			



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.

No.	Part Number	Name	Material	Finish	Q'ty
2	CB-113BS	Coaxial Cable	OD1.13	Black	1
1	AN2450-FPC1132	FPC		Black	1

Tengxiang Electronics Co., Ltd.

TITLE: Antenna

PART NO.: AN2450-FPC133BO | CUSTOMER P/N: /

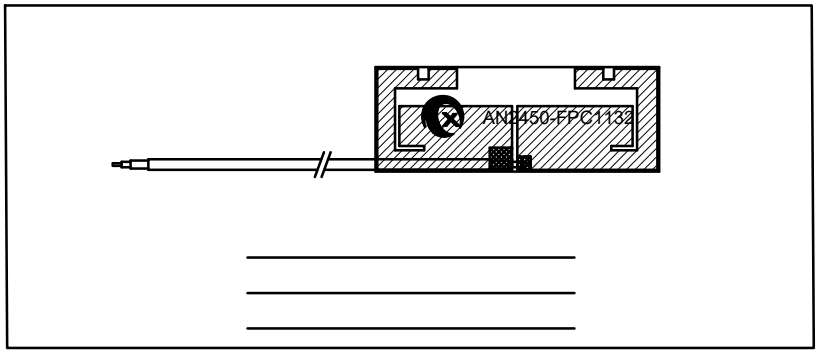
APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX 2023.11.01	WJ 2023.11.01	HC 2023.11.01	SYY 2023.11.01	UNITS: mm SCALE: 1/1 REVISION: A	X.X ±0.5 X.XX ±0.2 X° ±1

产品包装规范
PACKING CRITERION

Date: 2023.11.01

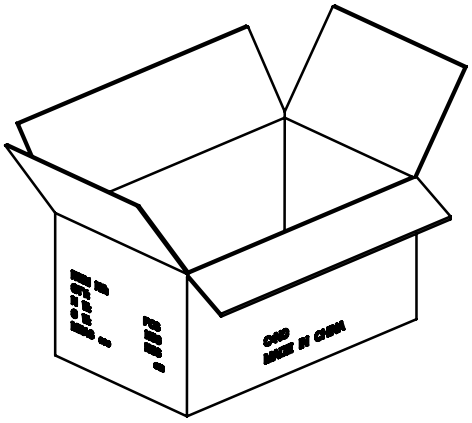
Part Number : AN2450-FPC133BO	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。



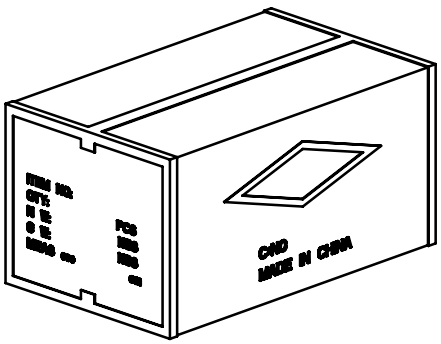
100pcs/ PE bag

2.PACKING。

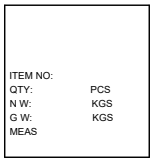


8000pcs/Carton

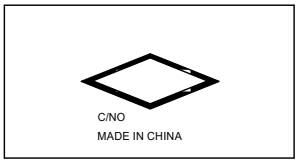
3. SEALING。

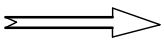


SIDE



FRONT





APPROVED BY : YCX CHECKED BY : HC DESIGNED BY : SYY