



# 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

TX 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	



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# Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN2450-FPC133B0

Product Name: Antenna

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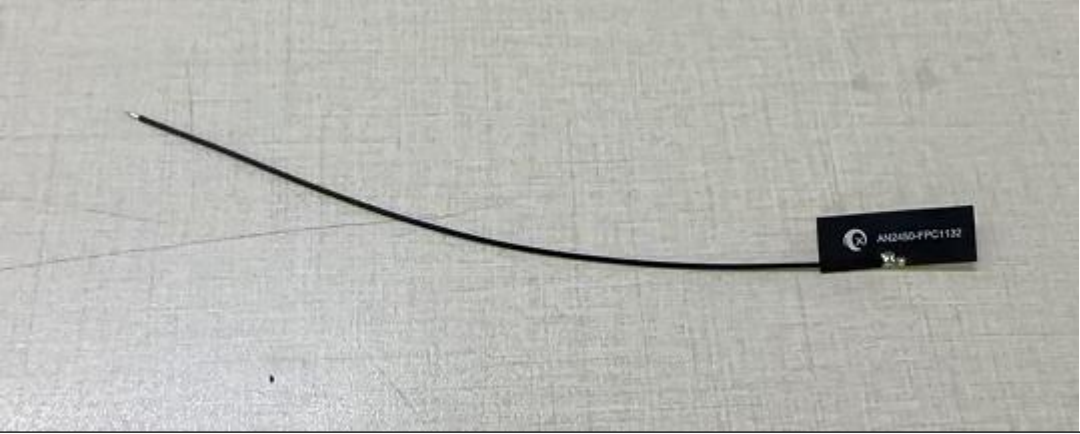
## Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2023.11.1	初版	

Product Number:AN2450-FPC133B0

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

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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



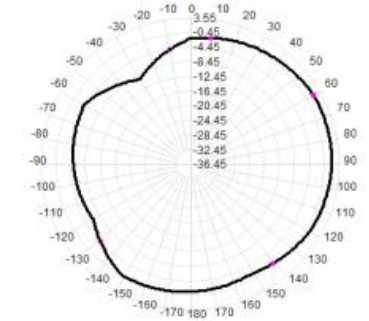
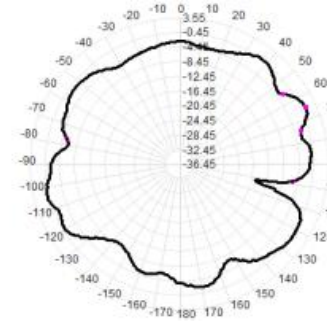
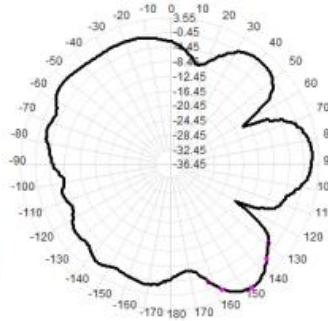
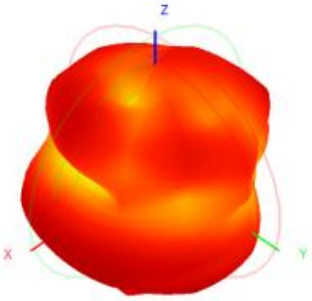
### 4. Antenna - Radiation Pattern Test Data

Frequency ID	1	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

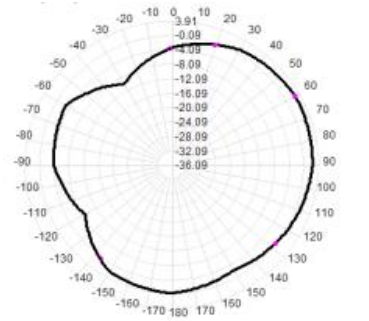
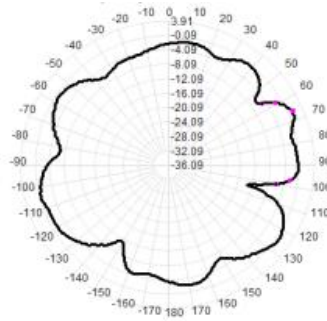
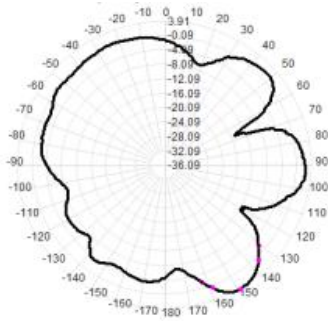
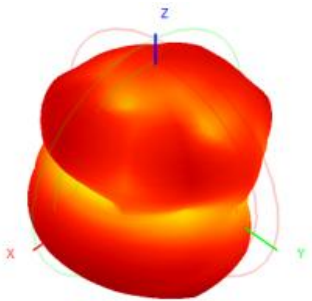
Product Number:AN2450-FPC133BO

Product Name: Antenna

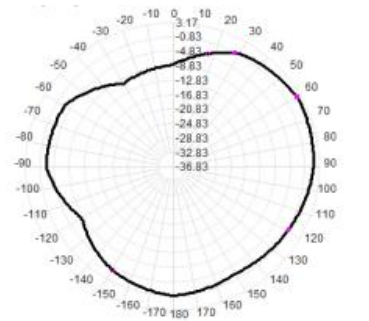
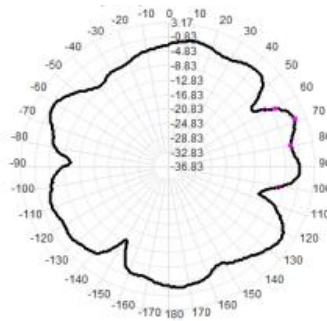
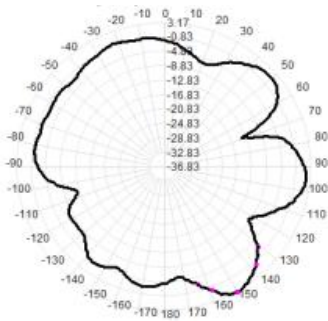
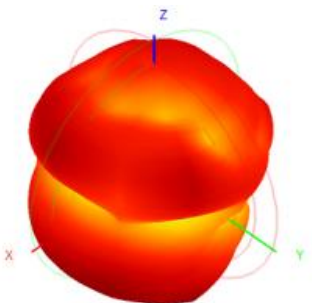
2400MHz



2450MHz



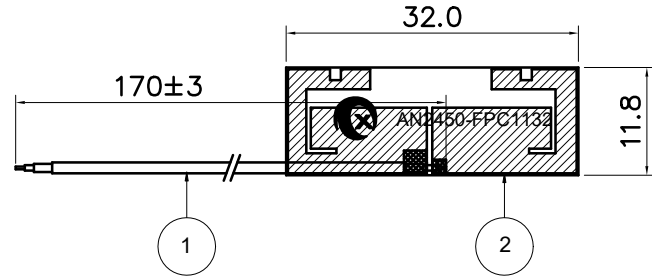
2500MHz



5. Mechanical Drawing See attached files

HF   
 RoHS2.0   
 REACH   
**CONFIDENTIAL**


SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



**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.

 **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	SY 2023.11.01		UNITS: mm SCALE: 1/1 REVISION: A

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

A

E

D

C

B

# 产品包装规范

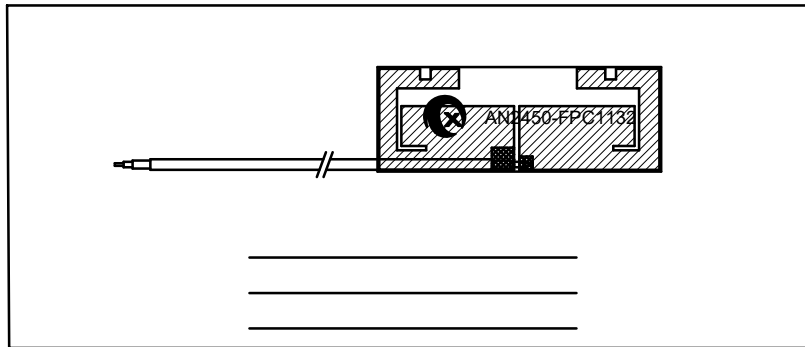
## PACKING CRITERION

Date: 2023.11.01

Page: 1 of 1

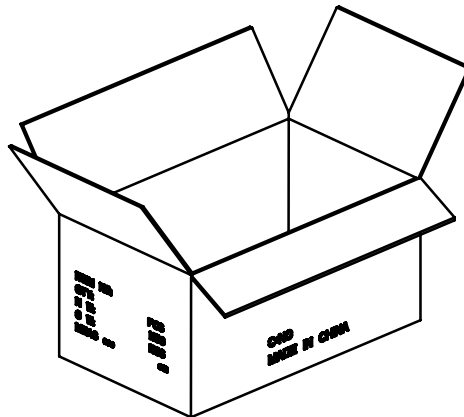
Part Number : AN2450-FPC133BO	Revision : A
Name: Antenna	Customer : ALL

1. Enter PE bag.



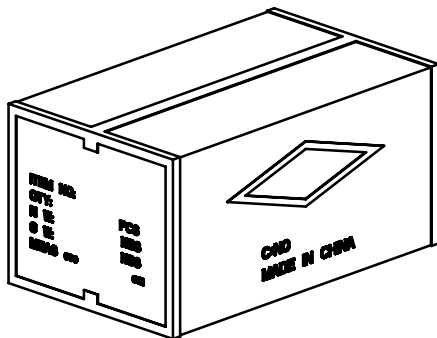
100pcs/ PE bag

2.PACKING.

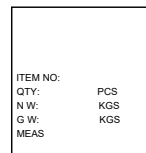


8000pcs/Carton

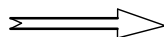
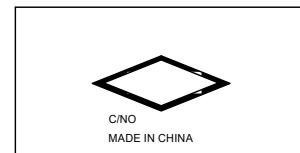
3. SEALING.



SIDE



FRONT



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