



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN2400-FPC336BX

Product Name: Antenna

Specification For Approval

Date: 2025.02.07

Version: 1.0

客户名称

Customer:

JIU AN

客户料号

Customer P/N:

腾祥料号

T X P/N:

AN2400-FPC336BX

规格描述

Description :

2.4G FPC Antenna,1.13mm L=65mm +IPEX

Tengxiang Checked By: 腾祥审核		Customer Approved By: 客户审核	
DRAWN 制作	LU TING	TESTED BY 检测	GuiXing H
CHECKED BY 审核	HU CHAO	CHECKED BY 审核	XieCheng X
Q.C.DEPT. 品管	ZHOU ZHI HONG	Q.C.DEPT. 品管	DongLi G
APPROVED BY 核准	WEI JIA	APPROVEDBY 核准	Jun X



Manufacturer : Dongguan TengxiangElectronic Technology.,Ltd.

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Product Name: Antenna

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Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2025.02.07	初版	

Product Number: AN2400-FPC336BX

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	3.51dBi
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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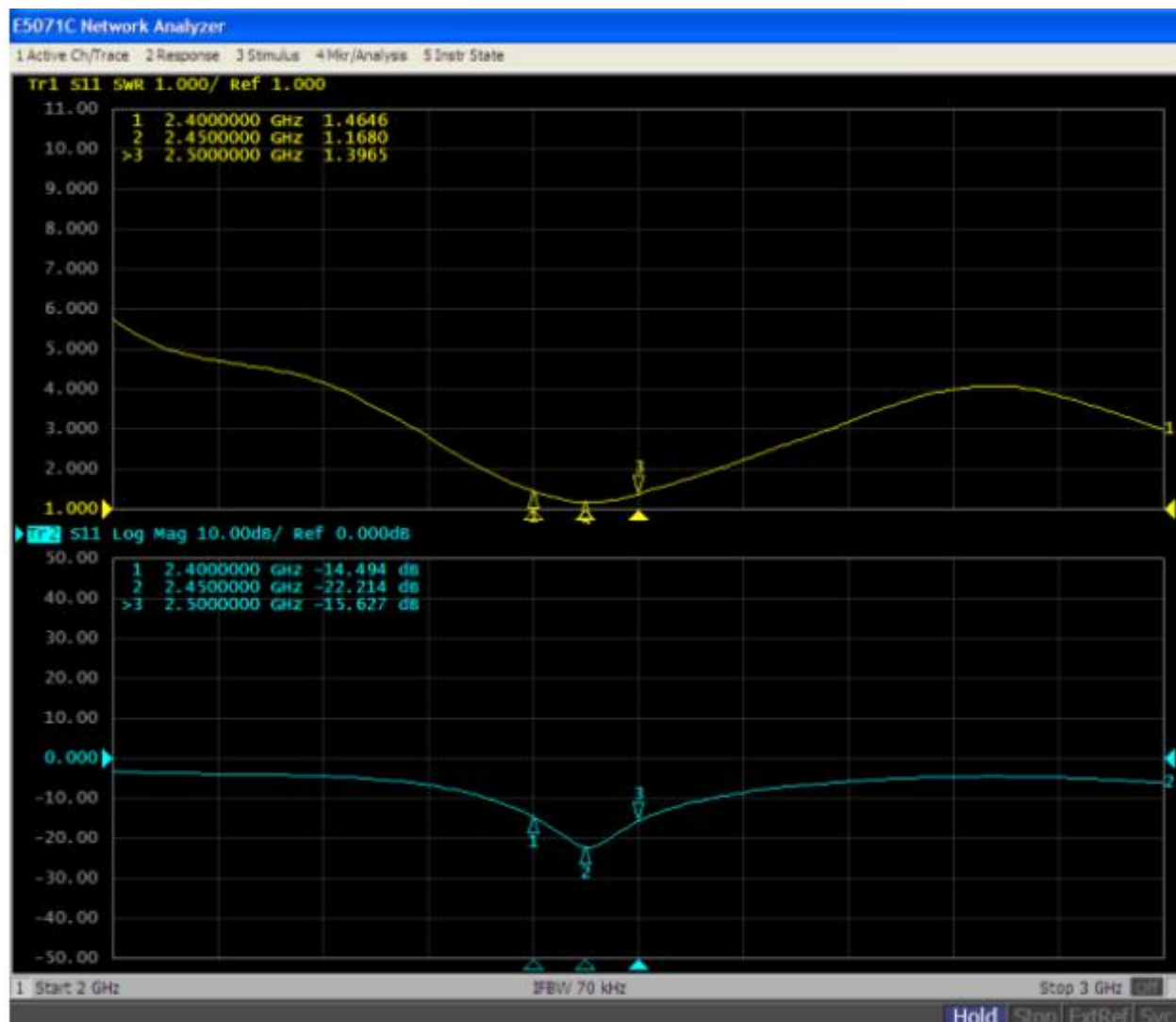
2. Characteristics and Reliability Test

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	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



Product Number: AN2400-FPC336BX

Product Name: Antenna

4. Antenna - Radiation Pattern Test Data

无源

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)	2.91	3.02	3.19	3.25	3.42	3.51	3.22	3.18	2.92	2.91	2.86
Efficiency (%)	54.39	55.22	56.89	56.58	57.05	56.85	54.02	53.92	53.07	52.63	53.82

有源

802.11b-11Mbps				802.11g-54Mbps			
Channel	ch1	ch6	ch11	Channel	ch1	ch6	ch11
TRP (dBm)	18.58	19.18	18.22	TRP (dBm)	17.15	18.16	17.9
TIS (dBm)	-81.85	-81.55	-81.52	TIS (dBm)	-68.08	-68.88	-69.62

802.11n-MCS7			
Channel	ch1	ch6	ch11
TRP (dBm)	17	18.19	17.94
TIS (dBm)	-65.11	-65.22	-66.82

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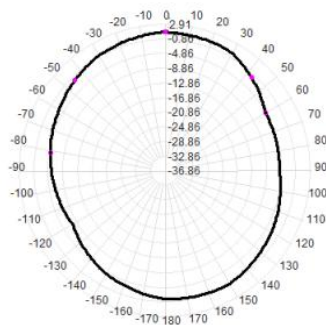
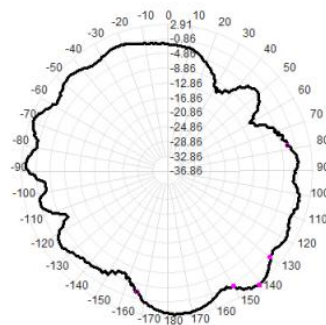
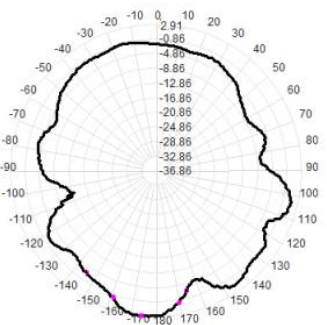
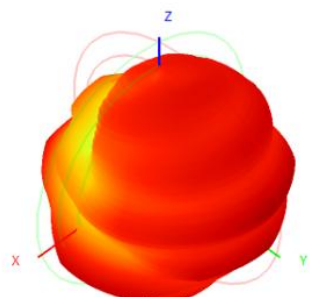
Product Name: Antenna

XZ

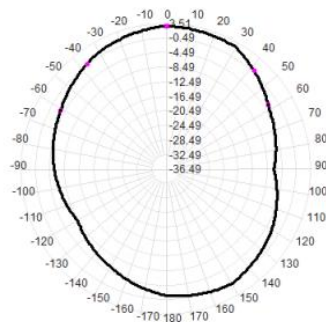
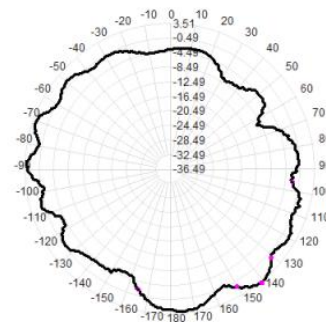
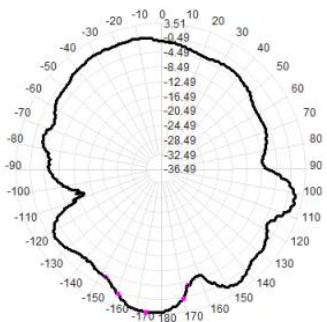
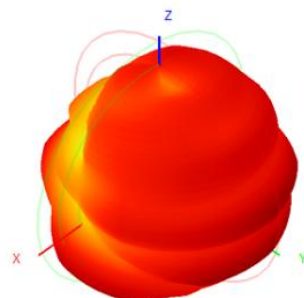
YZ

XY

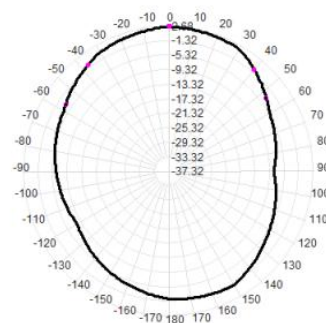
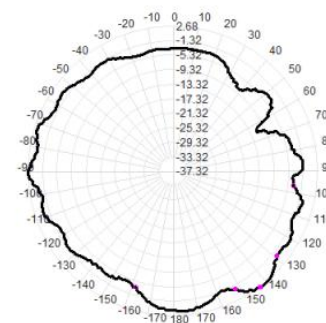
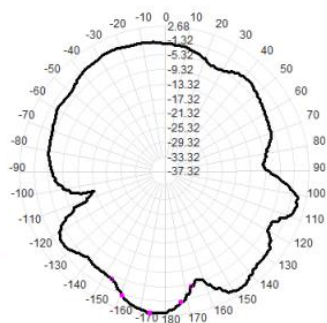
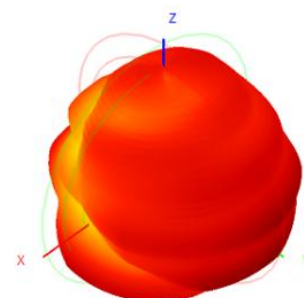
2400MHz



2450MHz

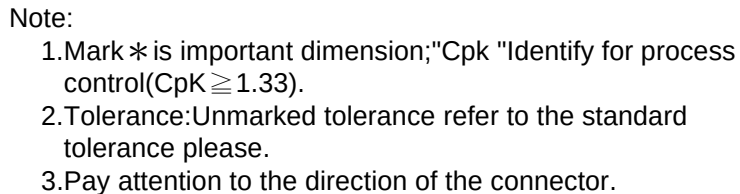


2500MHz



5. Mechanical Drawing See attached files

SIGN	DATE	DESCRIPTION	APPROVER
			
			
			



 Tengxiang Electronics Co., Ltd.					
TITLE: Antenna					
PART NO.: AN2400-FPC336BX				CUSTOMER P/N: /	
APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX 2025.02.07	HC 2025.02.07	WJ 2025.02.07	SYY 2025.02.07	UNITS: mm	X.X ±0.3
				SCALE: 1/1	X.XX ±0.1
				REVISION: A	X° ±1

產品包裝規範

PACKING CRITERION

Date: 2025.02.07

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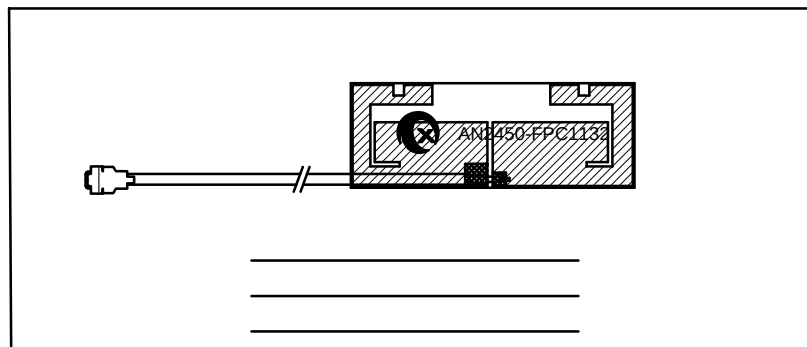
Part Number : AN2400-FPC336BX

Revision : A

Name: Antenna

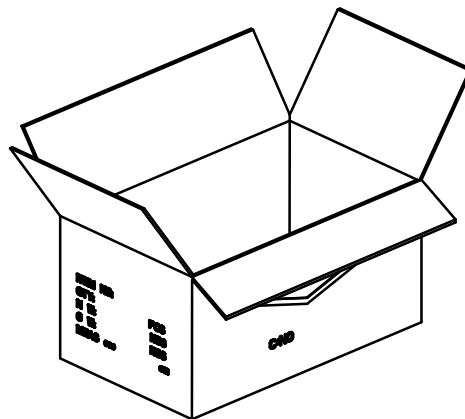
Customer : ALL

1 . Enter PE bag。



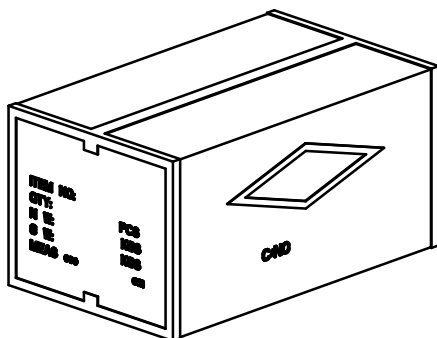
100pcs/ PE bag

2.PACKING 。



8000pcs/Carton

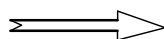
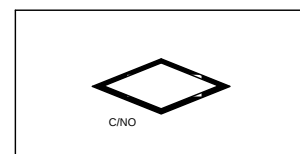
3. SEALING 。



SIDE

ITEM NO:
QTY: PCS
N W: KGS
G W: KGS
MEAS

FRONT



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : SY Y