



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number:AN2400-FPC345BX

Product Name: Antenna

Specification For Approval

Date: 2025.3.3

Version: 1.0

客户名称

Customer:

天诺/Tino

客户料号

Customer P/N:

腾祥料号

T X P/N:

AN2400-FPC345BX

规格描述

Description :

2.4G FPC antenna0.81mmL=70mm+IPEX (2)

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	周志红	Q.C.DEPT. 品管	
APPROVED BY 核准	韦佳	APPROVEDBY 核准	



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东莞市腾祥电子有限公司

Product Number:AN2400-FPC345BX

Product Name: Antenna

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Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2025.3.3	first edition	

Product Number: AN2400-FPC345BX

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	2.67dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Cable Type 线材规格	0.81mm ,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: AN2400-FPC345BX

Product Name: Antenna

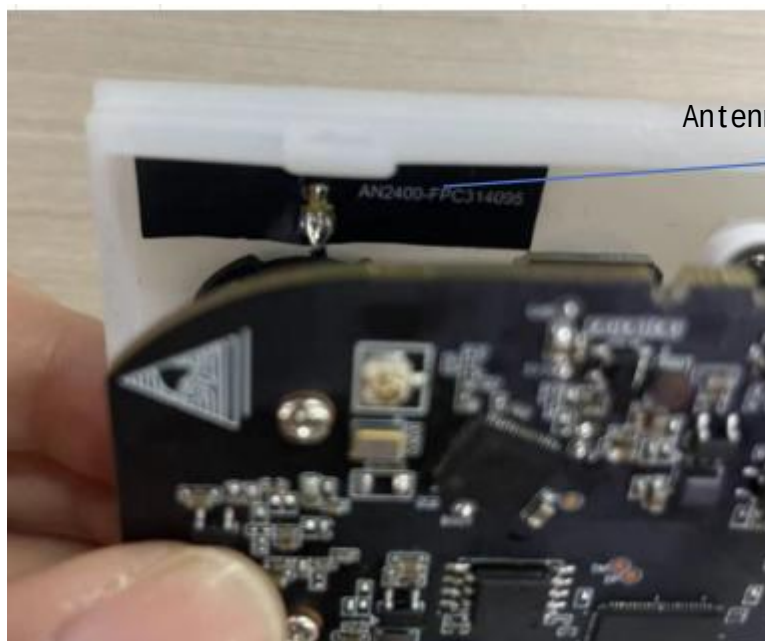
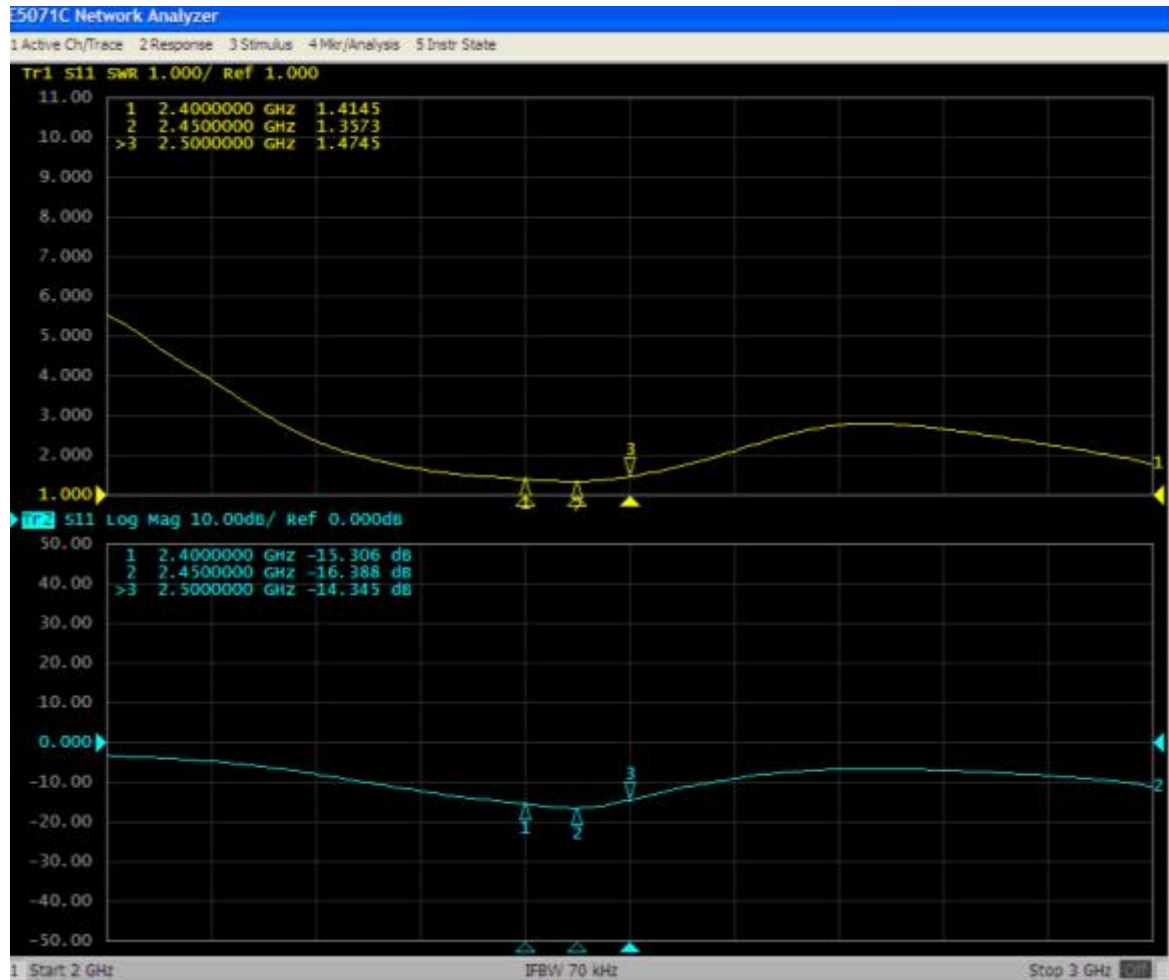
2. Characteristics and Reliability Test

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	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: AN2400-FPC345BX

Product Name: Antenna

3. Antenna - S Parameter Test Data



Antenna position

天线位置

Product Number:AN2400-FPC345BX

Product Name: Antenna

4. Antenna - Radiation Pattern Test Data

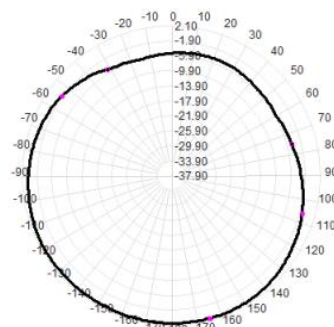
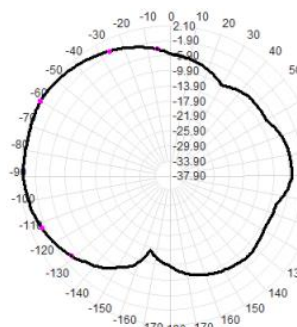
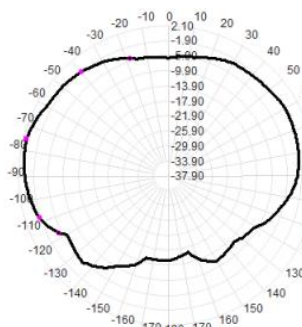
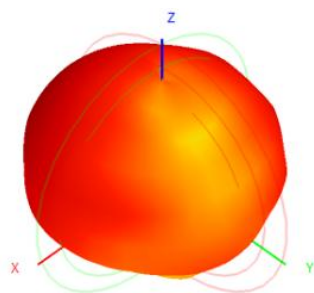
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	2.15	2.31	2.23	2.60	2.48	2.67	2.54	2.33	2.36	2.23	2.35
Efficiency (%)	54.10	55.46	53.83	58.88	57.68	61.99	62.97	59.36	58.24	57.43	56.42

XZ

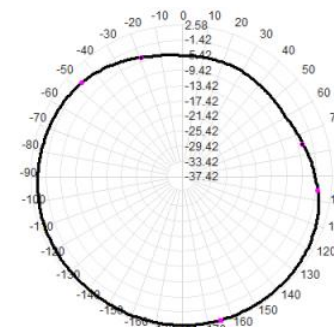
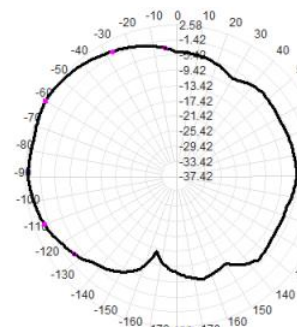
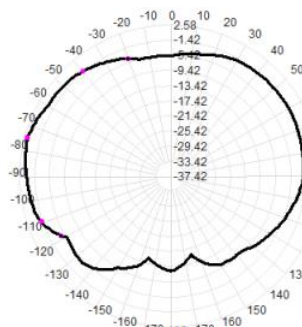
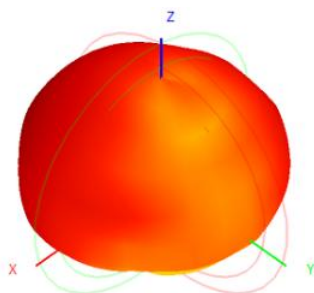
YZ

XY

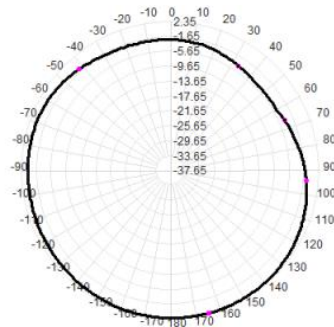
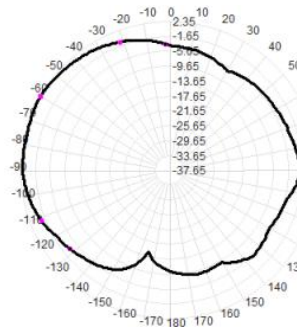
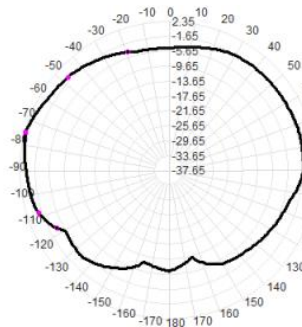
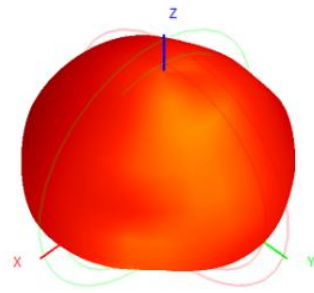
2400MHz



2450MHz



2500MHz



5. Mechanical Drawing See attached files

1		2		3		4		5		6		7		8			
HF ☐										SIGN		DATE		DESCRIPTION		APPROVER	
RoHS2.0 ☒										△							
REACH ☐										△							
CONFIDENTIAL										△							
E																E	
D																D	
C																C	
B																B	
A																A	

①

②

31.40±0.1

9.56±0.1

70.0±3.0

AN2400-FPC314095

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	CABLE-081-69BX	Coaxial Cable	OD0.81	Black	1
1	AN2400-FPC314095	FPC		Black	1
No.	Part Number	Name	Material	Finish	Q'ty

Tengxiang Electronics Co., Ltd.

TITLE: Antenna					
PART NO.: AN2400-FPC345BX				CUSTOMER P/N: /	
APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX	HC	WJ	SY		X.X ±0.5
2025.03.03	2025.03.03	2025.03.03	2025.03.03		X.XX ±0.2
				UNITS: mm	X° ±1
				SCALE: 1/1	
				REVISION: A	

产品包装规范

PACKING CRITERION

Date: 2025.03.03

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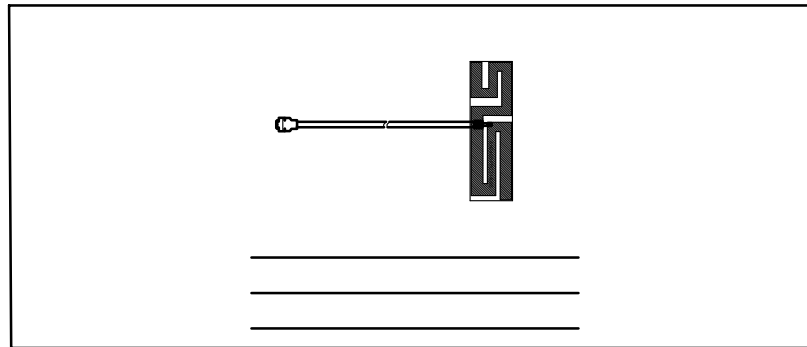
Part Number : AN2400-FPC345BX

Revision : A

Name: Antenna

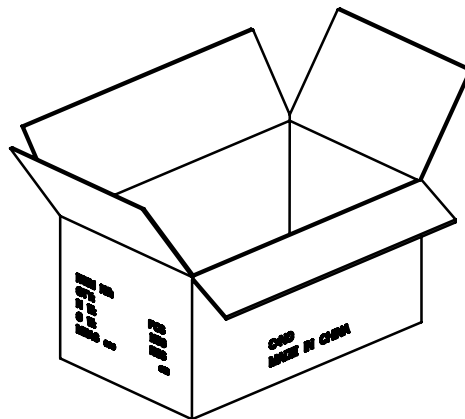
Customer : ALL

1 . Enter PE bag。



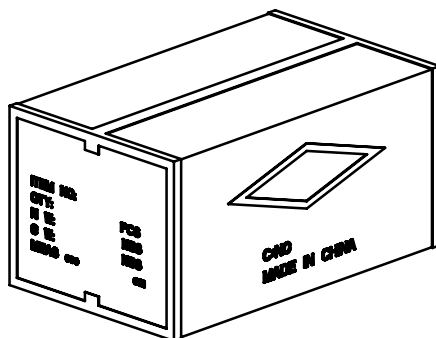
100pcs/ PE bag

2.PACKING。

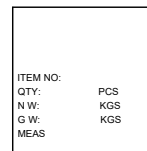


8000pcs/Carton

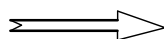
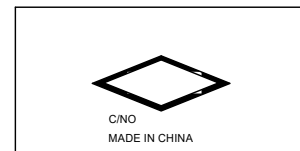
3. SEALING。



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : SY Y