

表单编号:

承认书封面

客户名称	东莞市福茂智能技术有限公司		
物料编码	E1300000134		
机型	F03N1		
供应商名称	东莞市腾祥电子有限公司		
物料名称	天线		
物料规格	F03N1A 带端子 wifi 天线 + 型号 AN2450-FPC134BX 丝印:F03N1_wifi_V1.0+二代端子线长 L=60mm+带 9x17mm 导电布+ROHS+TX		
是否符合 RoHS 标准	是		
日期	2023.11.8		
供应商	东莞市腾祥电子有限公司 <small>(供应商盖章处)</small>		
供应商地址	广东省东莞市长安镇沙头社区沙涌路 53 号		
联系人	袁廷旭		
电话	13649807086		
福茂确认	研发	工程	采购
	品质	业务	



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN2450-FPC134BX

Product Name: Antenna

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2. Characteristics and Reliability Test (产品特性和可靠性测试标准)
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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-FPC134BX

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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	0.60dBi / 1.46dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm

B. Material & Mechanical Characteristics

Cable Type 线材规格	OD0.81mm ,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

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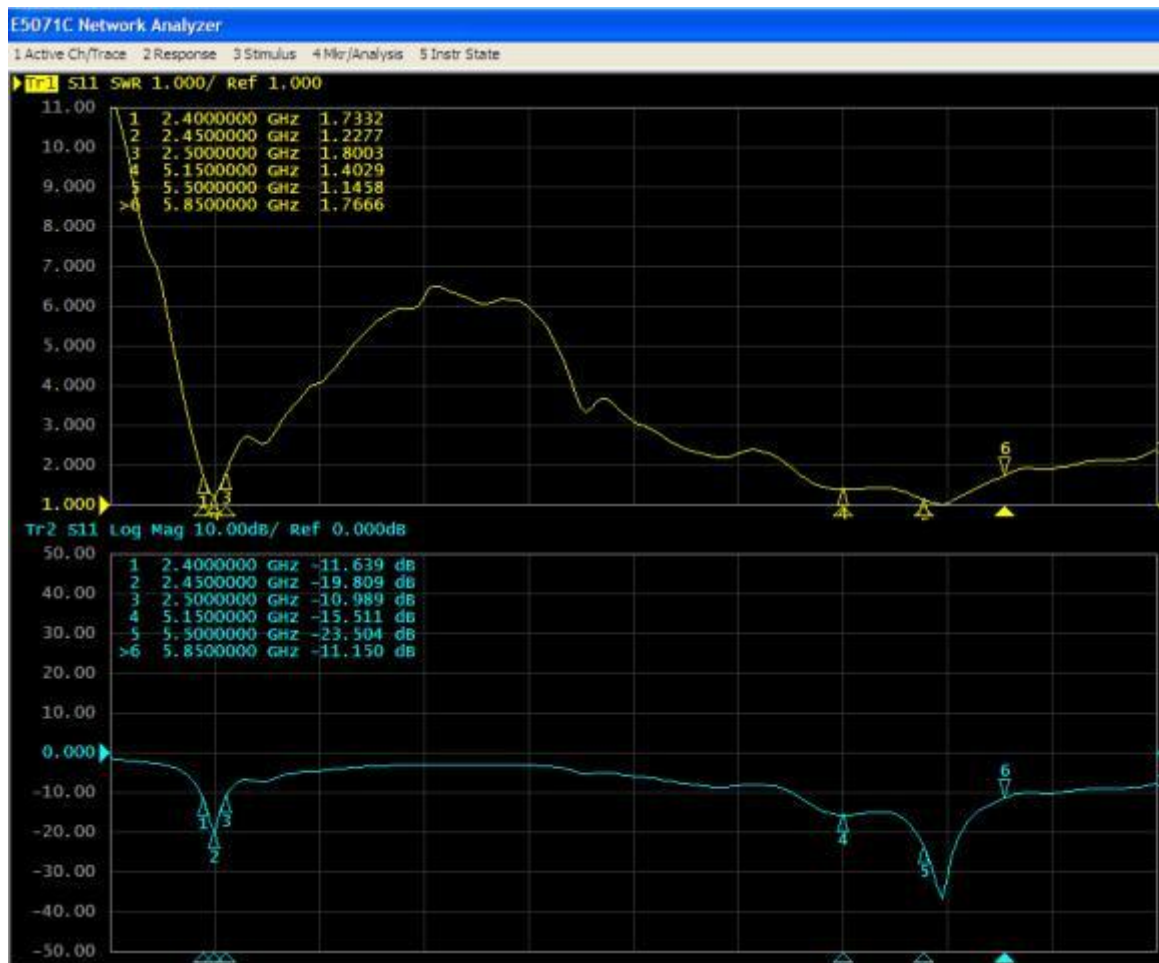
2. Characteristics and Reliability Test

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

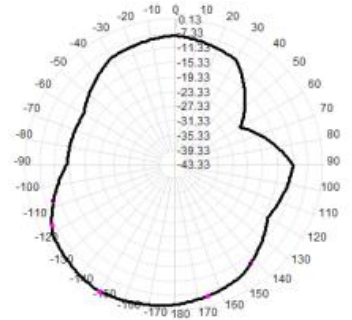
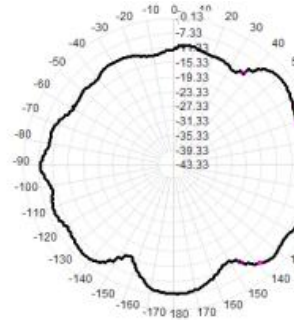
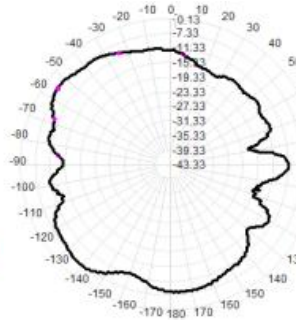
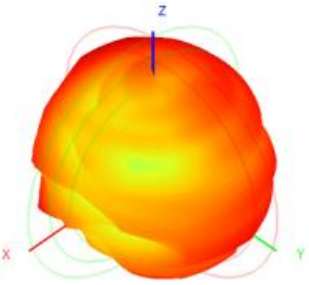
	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	0.22	0.28	0.45	0.56	0.60	0.59	0.25	0.33	0.20	0.35	0.26
Efficiency (%)	24.77	26.74	26.38	25.23	26.16	25.35	25.46	25.76	26.31	25.70	25.98

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
1.46	0.92	0.95	0.49	0.89	0.95	0.42	0.12	0.22	0.92	0.38	0.79	0.93	0.24	0.43
27.94	26.98	26.86	24.73	26.10	27.38	26.63	24.57	25.94	24.02	22.49	22.87	22.86	25.46	25.39

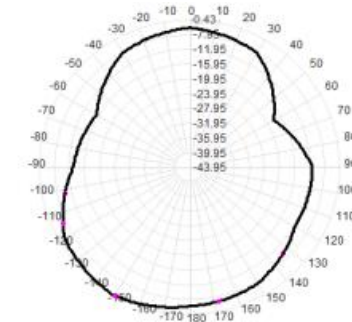
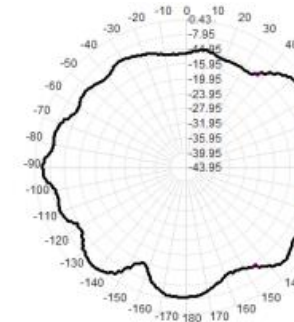
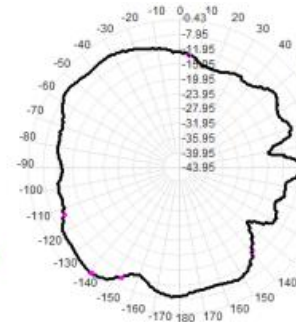
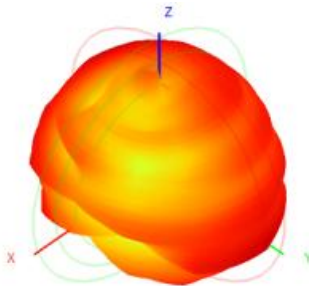
Product Number:AN2450-FPC134BX

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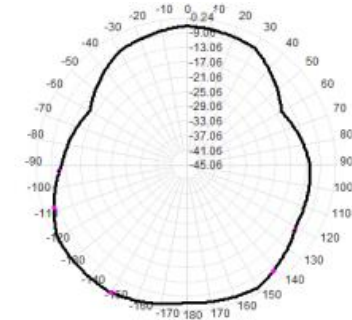
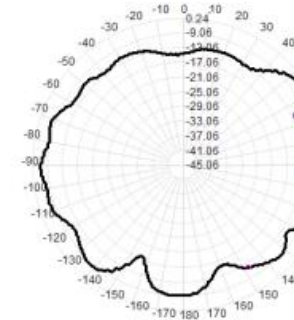
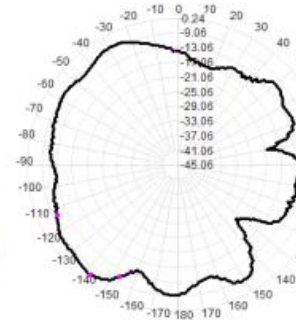
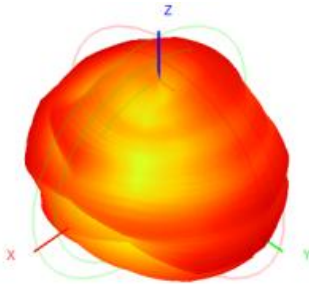
2400MHz



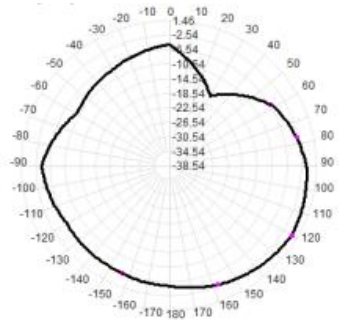
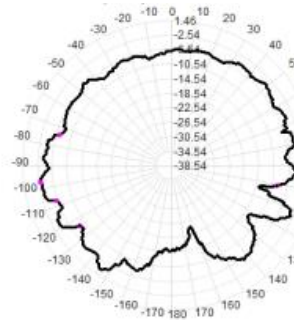
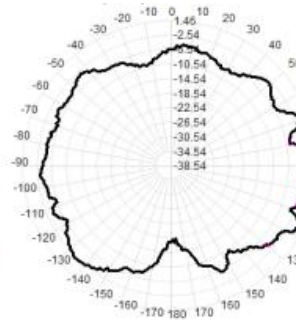
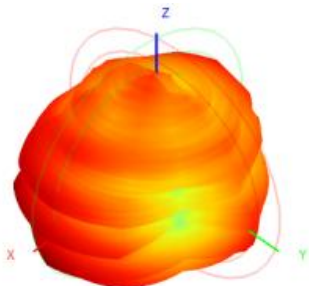
2450MHz



2500MHz



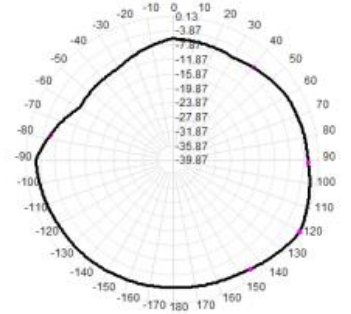
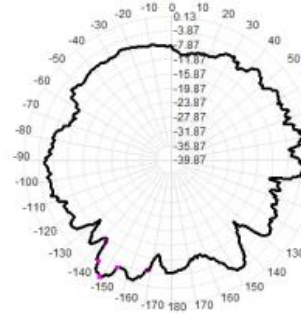
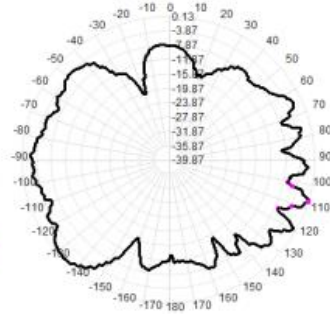
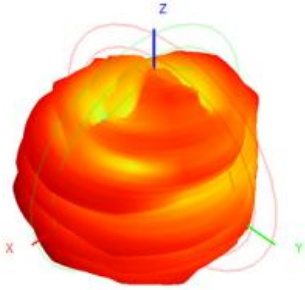
5150MHz



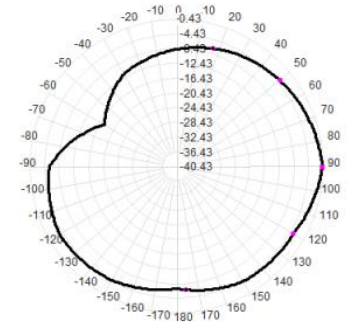
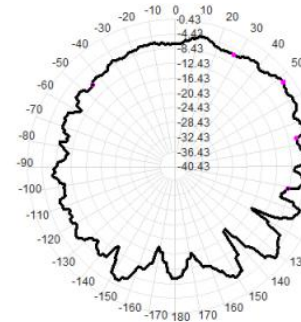
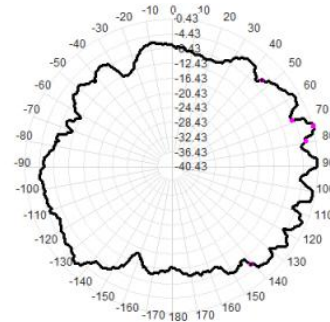
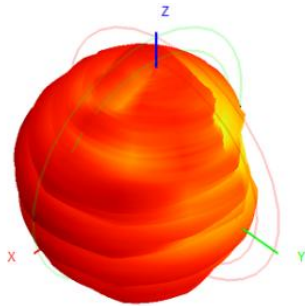
Product Number:AN2450-FPC134BX

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5550MHz



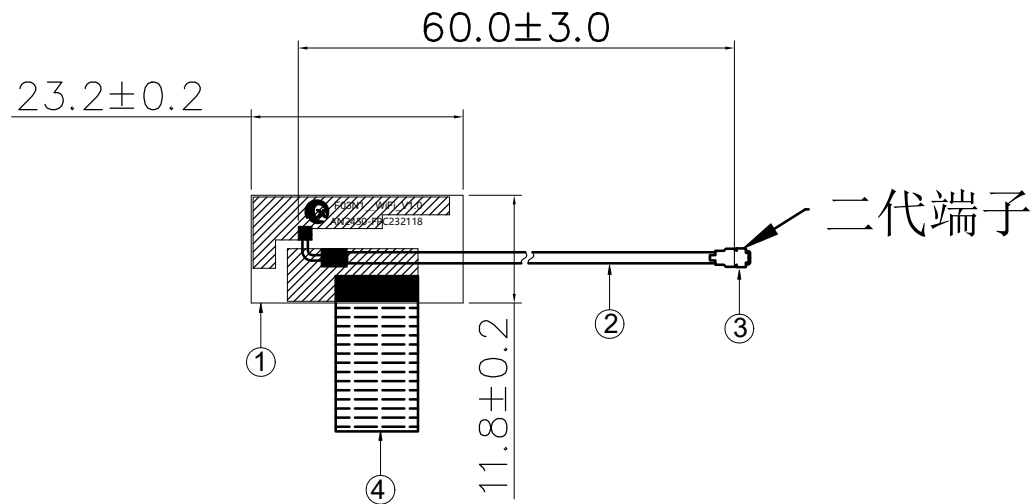
5850MHz



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.

4	TYPE-090170	导电布		9*17mm	1
3	CR-081-2	I-PEX	Cu	Au Plated	1
2	CB-081BS	Coaxial Cable	OD0.81	Black	1
1	AN2457-FPC445110	FPC		Black	1
No.	Part Number	Name	Material	Finish	Q'ty



Tengxiang Electronics Co., Ltd.

TITLE: Antenna					
PART NO.: AN2450-FPC134BX			CUSTOMER P/N: /		
APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX	WJ	HC	SY		UNITS: mm
2023.11.08	2023.11.08	2023.11.08	2023.11.08	SCALE: 1/1	X.XX ±0.1
				REVISION: A	X° ±1

產品包裝規範

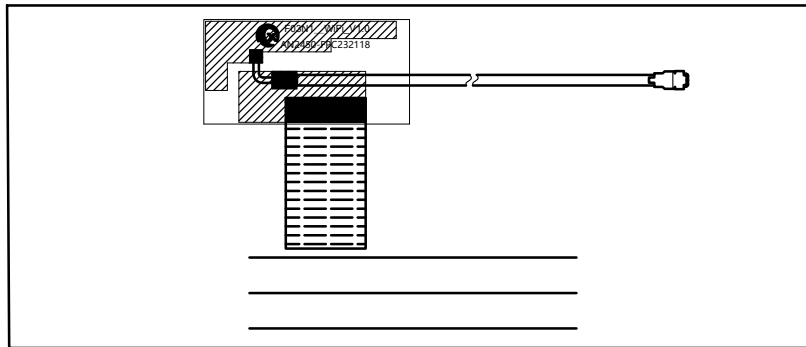
PACKING CRITERION

Date: 2023.11.08

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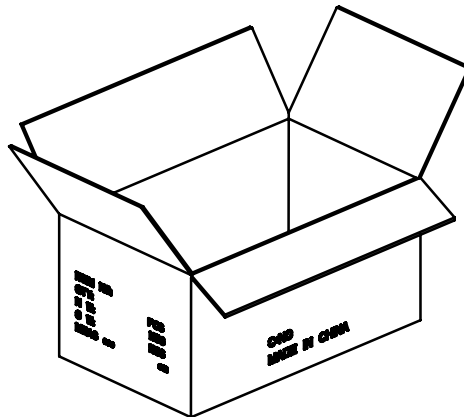
Part Number : AN2450-FPC134BX	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag .



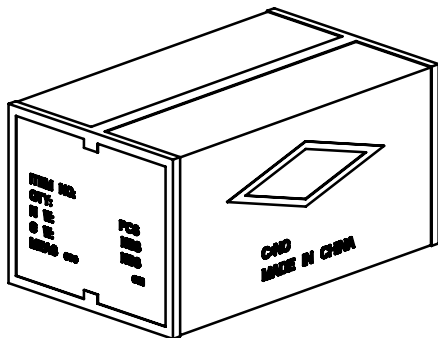
100pcs/ PE bag

2.PACKING .

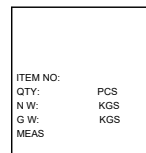


8000pcs/Carton

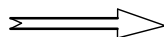
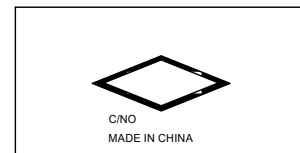
3. SEALING .



SIDE



FRONT



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