

Haiheng Technology.Inc

东莞市海恒电子科技有限公司

Product Number:AN2450-FPC502BX

Product Name: Antenna

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- 6. Mechanical and Packing Drawing (图纸包装规范)

Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2026.4.24	初版	

Manufacture address : Room 209, 2/F, No. 51 Jinghai East Road, Shatou South Area, Chang'an Town, Dongguan, Guangdong, China

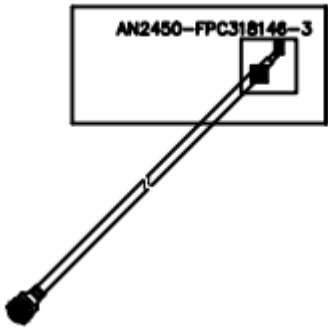
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Product Number:AN2450-FPC502BX

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1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	2400-2500MHz/5150-5850MHz
S.W.R. 驻波比	参考波形
Antenna Gain 增益	-0.14dBi / 7.02dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Cable Type 线材规格	1.13mm ,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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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: $260 \pm 5^{\circ} \text{C}$; Duration: 5 seconds 温度 $260 \pm 5^{\circ} \text{C}$; 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. $\leq 5\%$ 符合待测物规范; 频率偏移 $\leq 5\%$	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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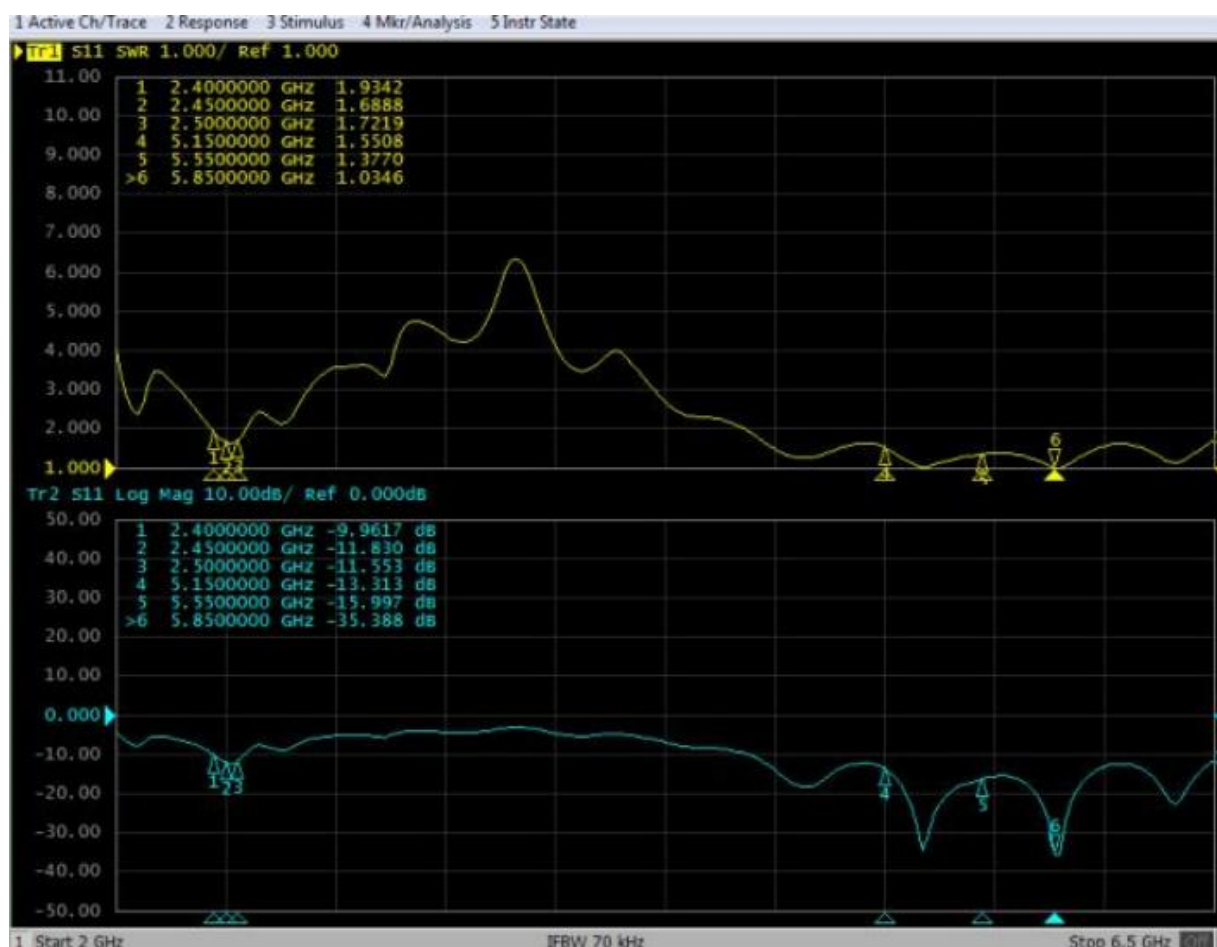
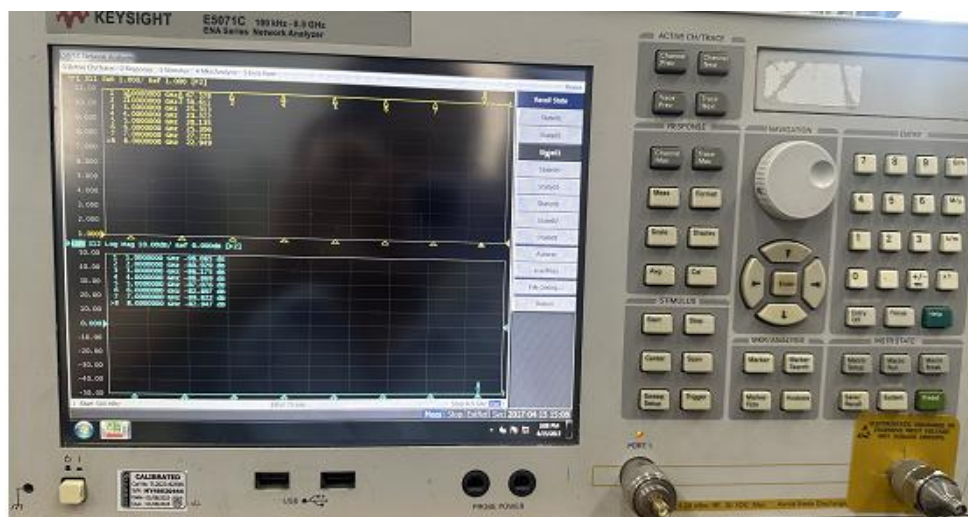
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3. Antenna - S Parameter Test Data

测试仪器：VSWR 是使用安捷伦 E5071C 连接到治具来测试，状态为自由空间。



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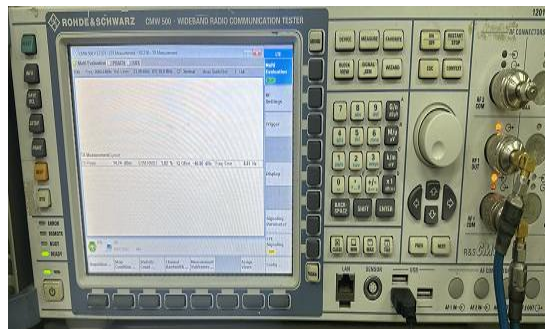
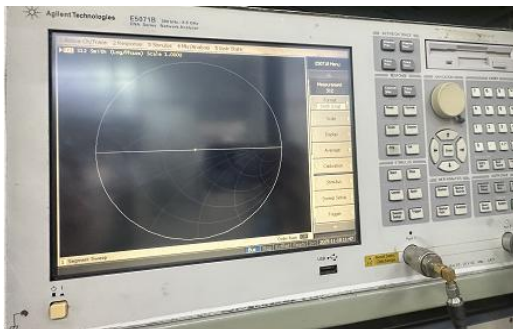
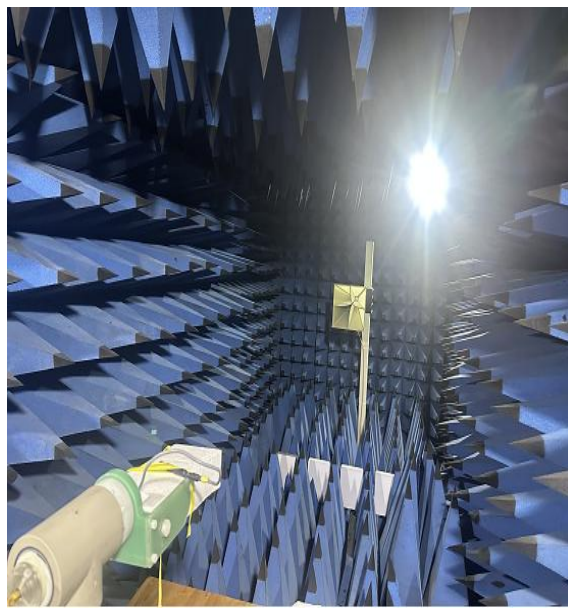
Product Name: Antenna

4. Test environment and equipment

暗室规格: 6m*6m*6m/7m*3m*3m

LTE-TDD/FDD-SCDMA 测试设备: ROHDE&SCHWARZ CMW500

无源效率测试设备:Agilent Technologies E5071B



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5. Antenna - Radiation Pattern Test Data

序号	1	2	3	4	5	6	7	8	9	10	11
频率(MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
增益 (dBi)	-1.64	-0.75	-0.14	-0.22	-0.18	-0.19	-0.37	-0.43	-0.39	-0.67	-0.67
效率 (%)	19.52	21.31	22.83	24.44	25.89	26.43	25.63	27.07	27.03	25.52	26.26

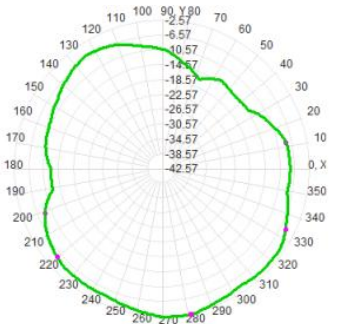
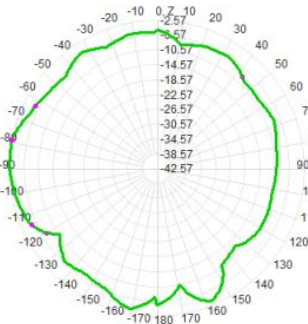
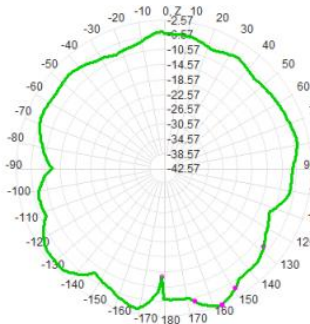
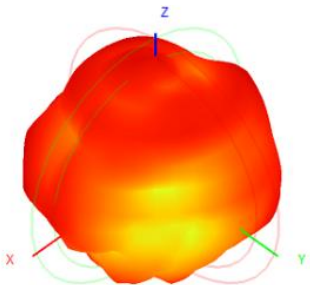
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
5.82	5.47	5.19	5.35	5.28	5.19	5.66	6.40	6.87	7.01	7.02	6.91	6.72	6.67	6.88
51.59	45.85	44.46	43.79	41.94	42.38	50.75	59.28	60.96	61.26	60.64	60.00	56.83	53.37	54.63

XZ

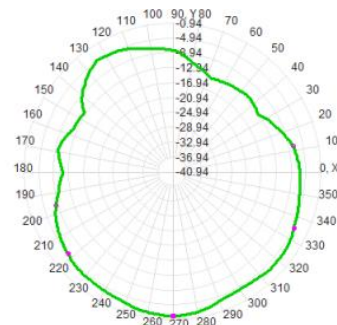
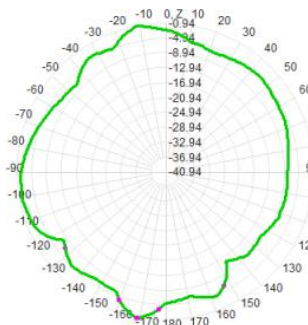
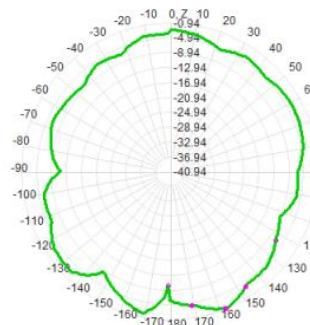
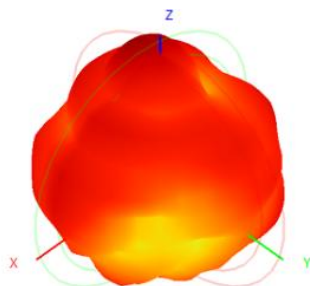
YZ

XY

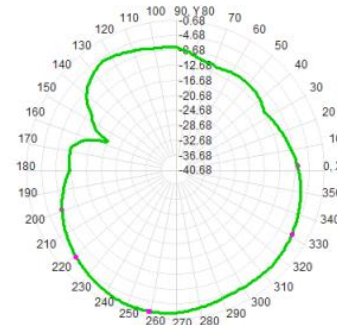
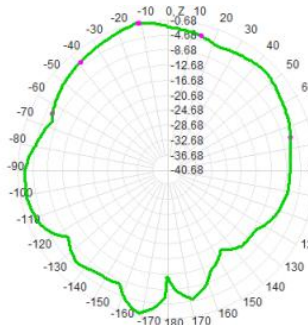
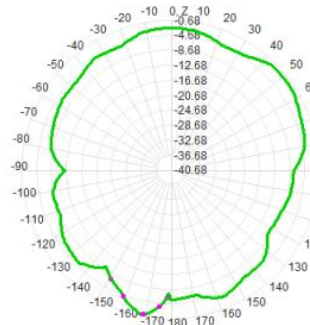
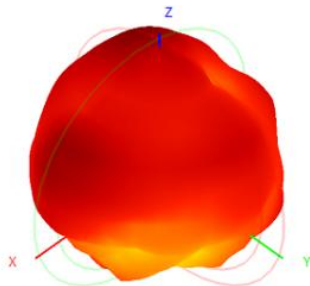
2400MHz



2450MHz



2500MHz



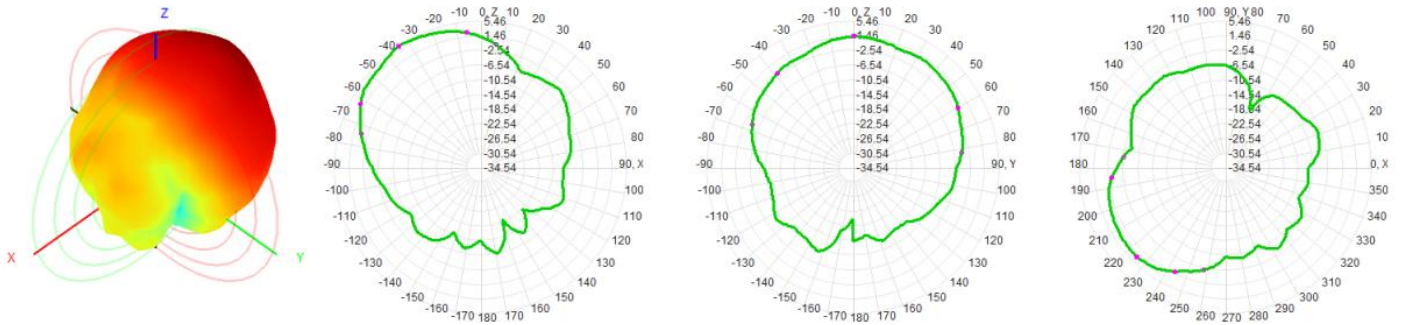
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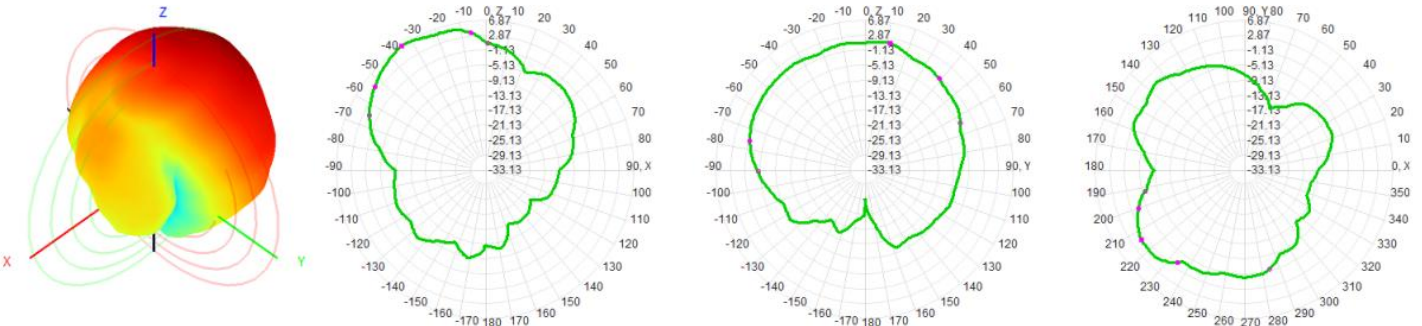
Product Number:AN2450-FPC502BX

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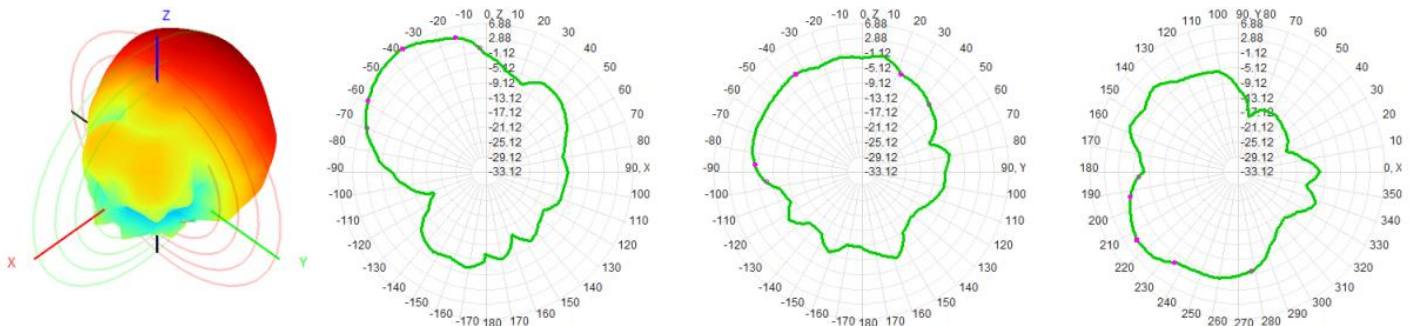
5150MHz



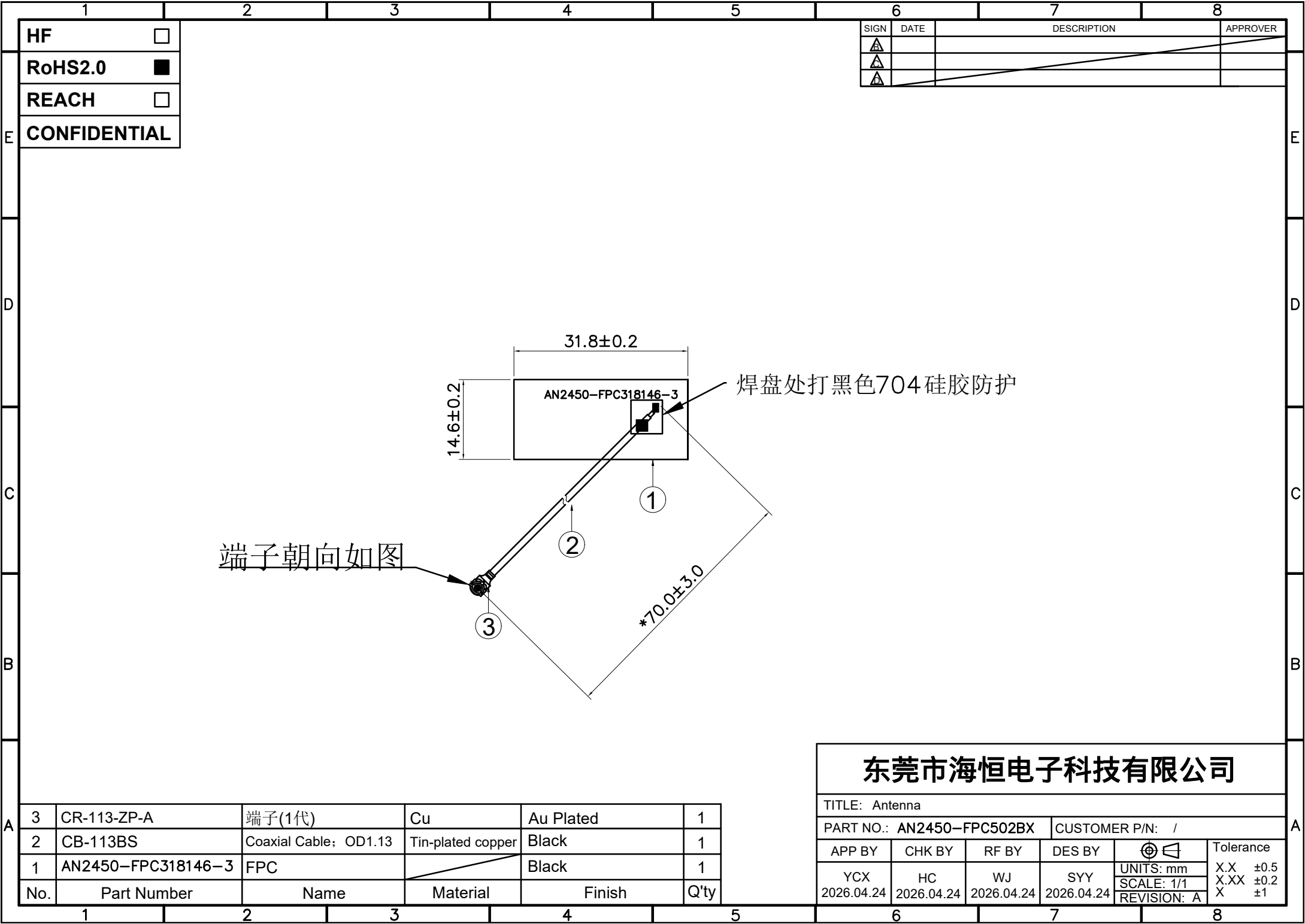
5550MHz



5850MHz



6.Mechanical Drawing See attached files



HF	☐
RoHS2.0	☒
REACH	☐
CONFIDENTIAL	

SIGN	DATE	DESCRIPTION	APPROVER

3	CR-113-ZP-A	端子(1代)	Cu	Au Plated	1
2	CB-113BS	Coaxial Cable; OD1.13	Tin-plated copper	Black	1
1	AN2450-FPC318146-3	FPC		Black	1
No.	Part Number	Name	Material	Finish	Q'ty

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TITLE: Antenna					
PART NO.: AN2450-FPC502BX				CUSTOMER P/N: /	
APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX	HC	WJ	SY		X.X ±0.5
2026.04.24	2026.04.24	2026.04.24	2026.04.24		X.XX ±0.2
					X ±1
				UNITS: mm	
				SCALE: 1/1	
				REVISION: A	

产品包装规范

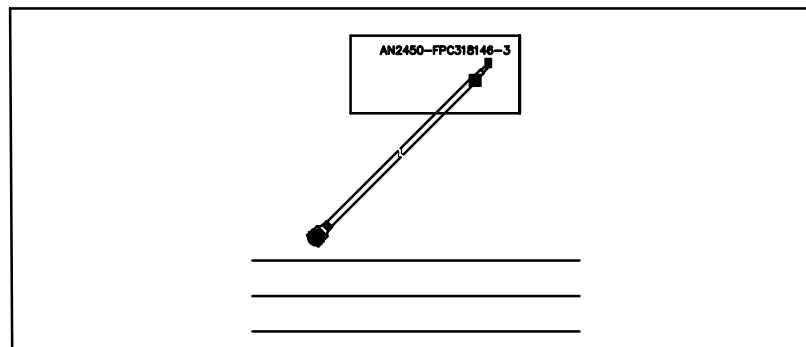
PACKING CRITERION

Date: 2026.04.16

Page: 1 of 1

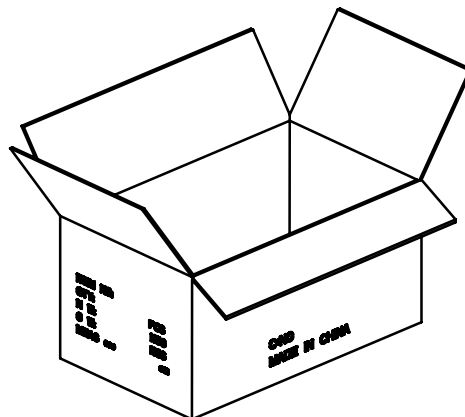
Part Number : AN2450-FPC502BX	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。



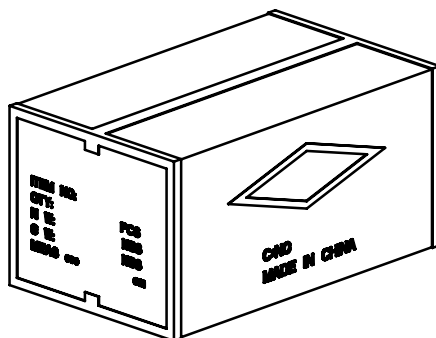
100pcs/ PE bag

2.PACKING。

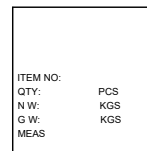


8000pcs/Carton

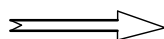
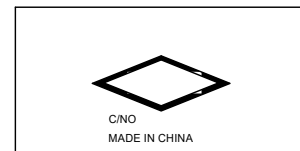
3. SEALING。



SIDE



FRONT



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