

广州极飞科技股份有限公司

样品承认书

产品料号: 01-003-00452

产品版本: A0

产品名称: 2. 4G内置铜管天线-L

产品规格: 2.4G 铜管 左 天线 137 黑色线 L =32mm+IPEX

原料牌号:

表面处理: 丝印

供 应 商: 东莞市海恒电子科技有限公司

极飞签核		
结构设计	可靠性质量	中试审批
说明:		

供应商签核		
制作	审核	核准
邓文兵	胡超	陈鹏
说明:		

Product Number: AN2400-TUB55BX
Product Name: Antenna

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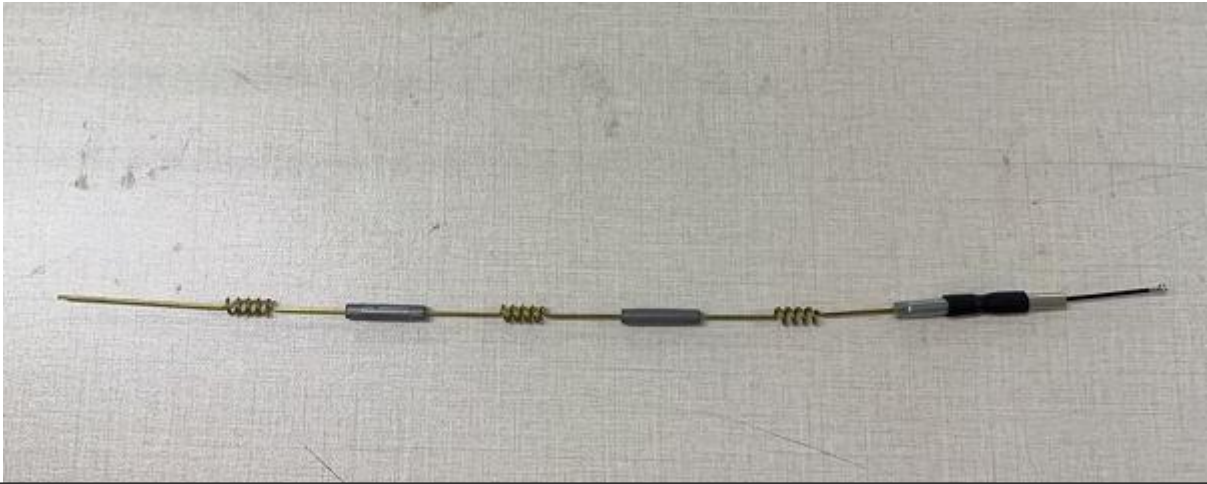
Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2024.4.9	初版	

Product Number: AN2400-TUB55BX

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	8.05dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Cable Type 线材规格	OD1.37mm ,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-TUB55BX

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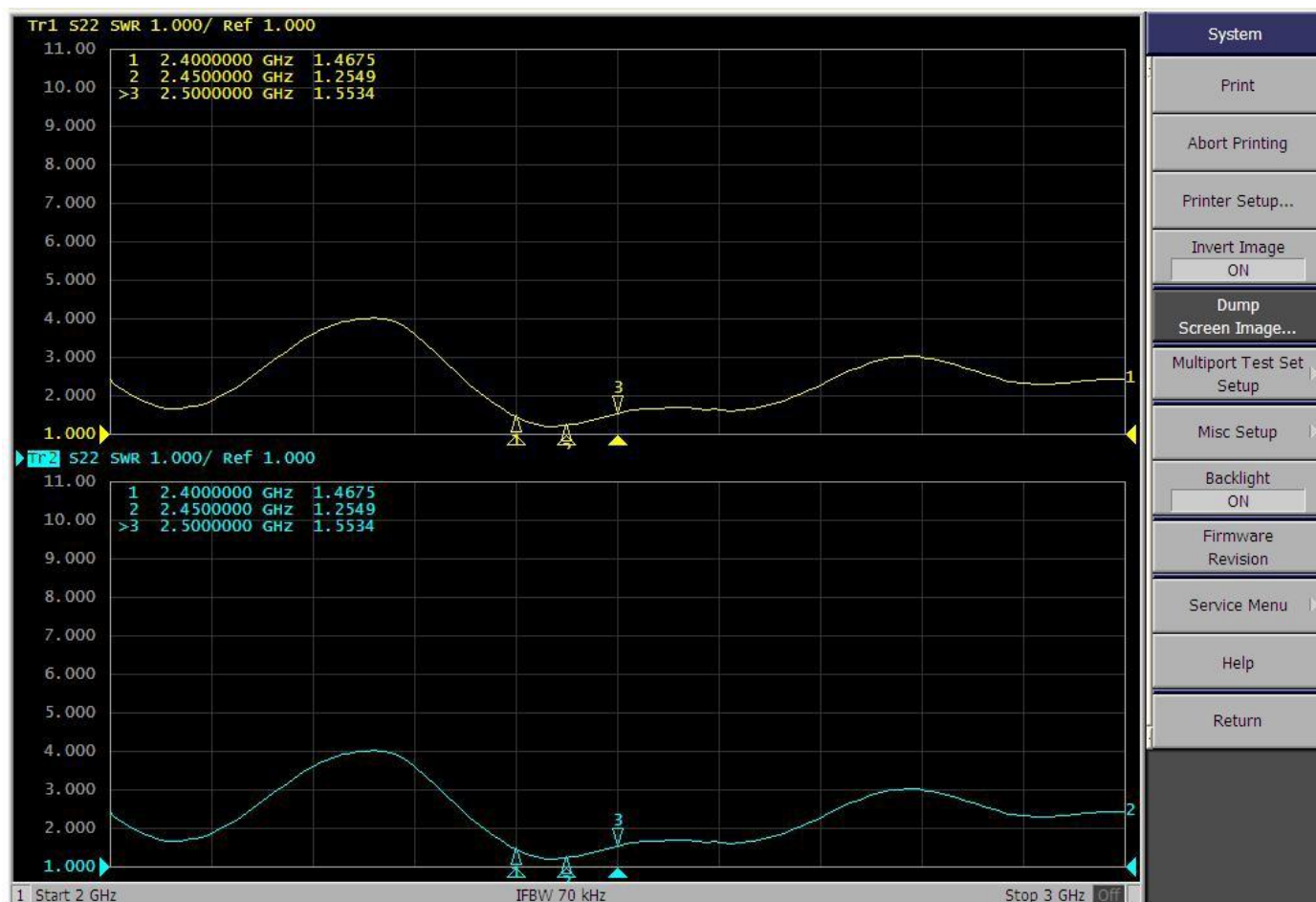
2. Characteristics and Reliability Test

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: $260 \pm 5^{\circ}\text{C}$; 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	Salt Spray 盐雾	GB / T 2423.17-2008 Temp: 35°C ; RH: $\geq 95\%$; NaCl solution: $\geq 5\%$; Time: 24H 温度 35°C ; 湿度 $\geq 95\%$; 盐水浓度 $\geq 5\%$; 测试 24H	1. No Visual Damage 2. Frequency Tol. $\leq 5\%$ 无明显外观不良; 频率偏移 $\leq 5\%$	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)	6.58	6.83	7.13	7.25	8.05	7.22	7.05	6.85	6.64	6.56	6.42
Efficiency (%)	68.34	71.58	75.18	76.63	79.48	79.40	77.21	74.46	71.41	69.85	67.81

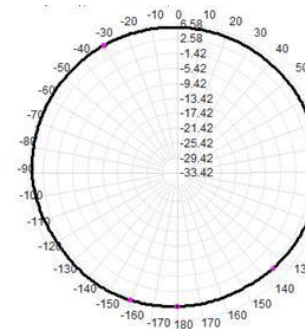
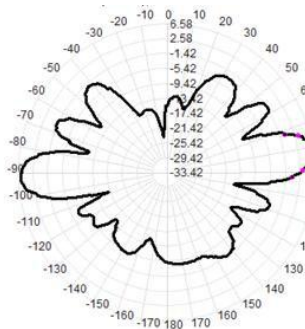
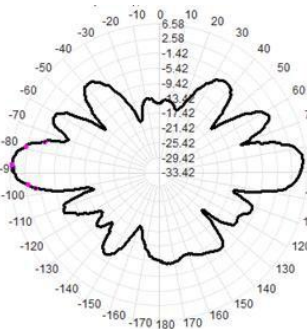
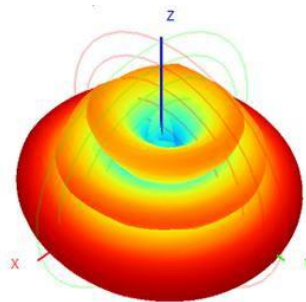
Product Number: AN2400-TUB55BX
Product Name: Antenna

XZ

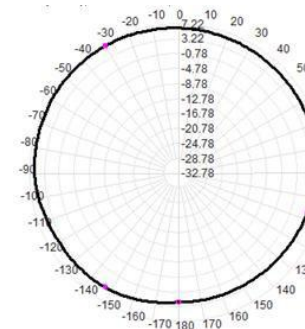
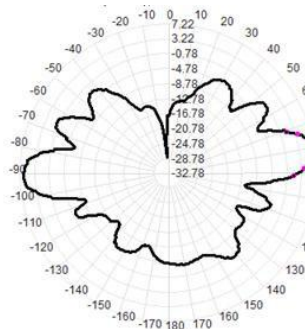
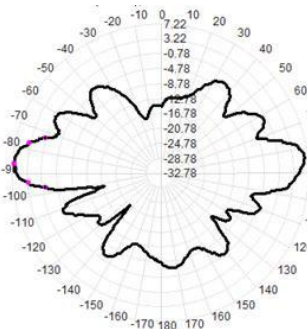
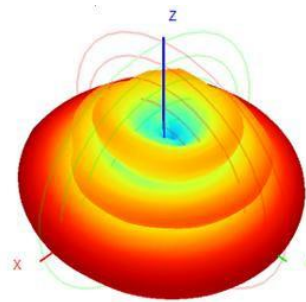
YZ

XY

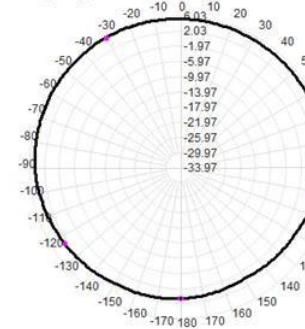
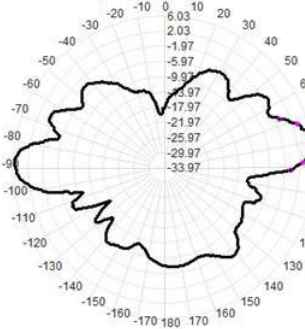
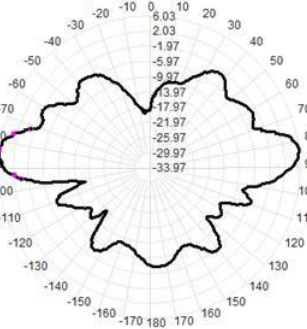
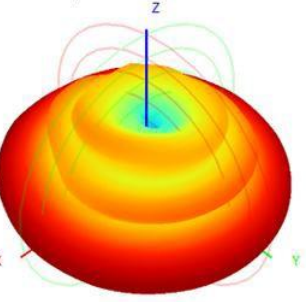
2400MHz



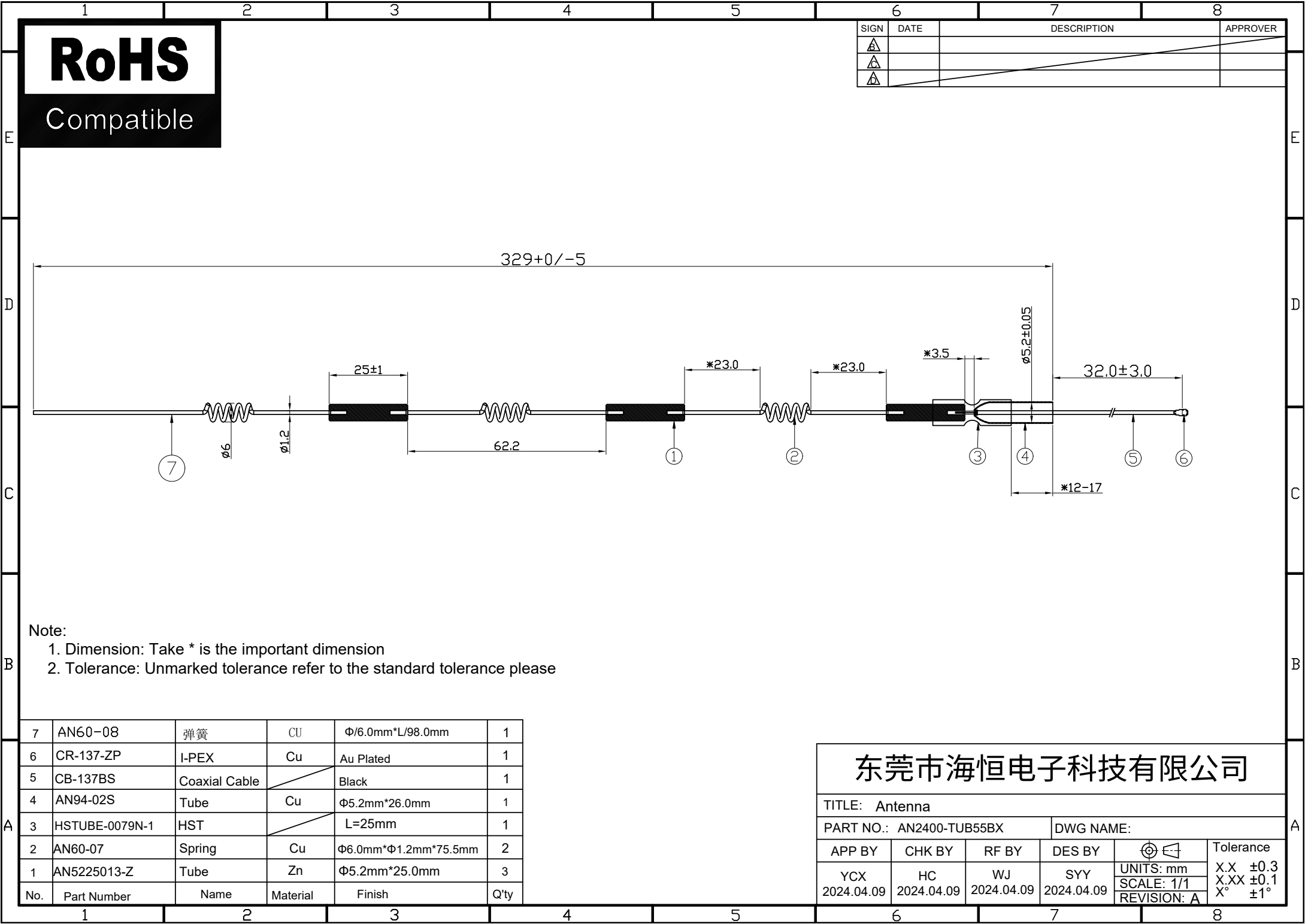
2450MHz



2500MHz



5. Mechanical Drawing See attached files



Note:
1. Dimension: Take * is the important dimension
2. Tolerance: Unmarked tolerance refer to the standard tolerance please

7	AN60-08	弹簧	Cu	Φ6.0mm*L/98.0mm	1
6	CR-137-ZP	I-PEX	Cu	Au Plated	1
5	CB-137BS	Coaxial Cable		Black	1
4	AN94-02S	Tube	Cu	Φ5.2mm*26.0mm	1
3	HSTUBE-0079N-1	HST		L=25mm	1
2	AN60-07	Spring	Cu	Φ6.0mm*Φ1.2mm*75.5mm	2
1	AN5225013-Z	Tube	Zn	Φ5.2mm*25.0mm	3
No.	Part Number	Name	Material	Finish	Q'ty

东莞市海恒电子科技有限公司					
TITLE: Antenna					
PART NO.: AN2400-TUB55BX			DWG NAME:		
APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX	HC	WJ	SY		X.X ±0.3
2024.04.09	2024.04.09	2024.04.09	2024.04.09		X.XX ±0.1
				UNITS: mm	X° ±1°
				SCALE: 1/1	
				REVISION: A	

RoHS
Compatible

SIGN	DATE	DESCRIPTION	APPROVER

产品包装规范

PACKING CRITERION

Date:2024.04.09

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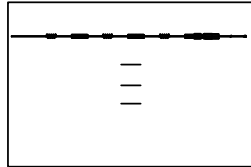
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Revision : A

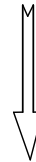
Name: Antenna

Customer : ALL

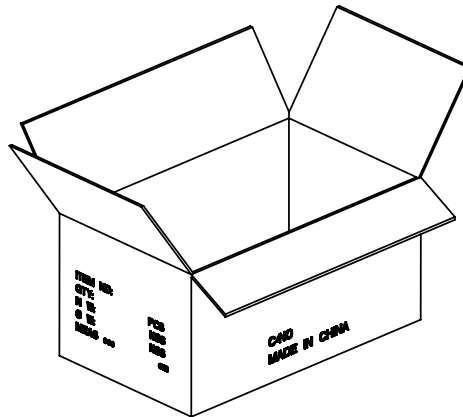
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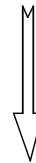
10pcs/PE bag



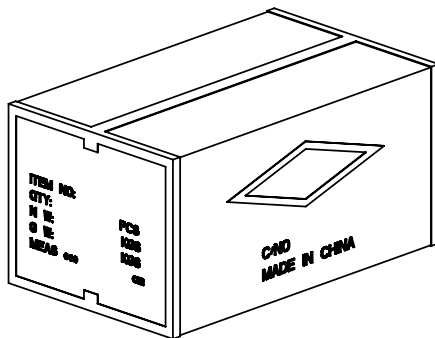
2.PACKING。



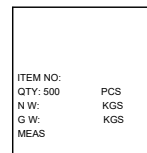
5000pcs/Box



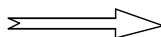
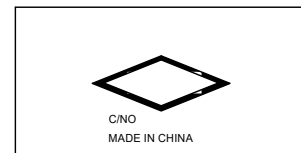
3. SEALING。



SIDE



FRONT



APPROVED BY: YCX

CHECKED BY: HC

DESIGNED BY: SY Y