



广东恩威视科技有限公司
Guangdong Envision Technology Limited

物料承认书

文件编号:RD-ACK-RC____-____版本:____

ComponentItem 物料编号	
PartName 物料名称	2.4G 天线
Specification 物料规格	AN2400-155F01SM-900 黑色天线,RG178 黑色线 L=900mm+SMA 公头公针
有害环境物质管理要求 (依照最新法规公布实施的 管控标准和清单执行)	☒ RoHS 2.0(2011/65/EU) ☐ REACH ☐ CP65 (加州 65) ☐ CPSIA ☐ ASTM F963 ☐ EN71 ☐ MSDS ☐ TSCA ☐ 其它:
Datasheet 物料规格书	

COMPANY APPROVED 本厂承认

Approved By 批准:	Checked By 审核:	Compile By 编制:
Data 日期: 年 月 日	Data 日期: 年 月 日	Data 日期: 年 月 日

SUPPLIER CONFIRMED 供应商确认

有害环境物质测试报告编号:	NGBEC2001105102 ,CANEC2022723601 ,SZXEC2003 012903 ,DTIBW20200073-2-3E,DTIBW20200073-1-3E, C200703051004,CANML2020258403 ,CANML2020258 404 ,CANML2020258401 ,CANML2020258402
供应商签名/公章:	东莞市海恒电子科技有限公司

变更履历表

版本	变更内容	工程师确认	审核/日期	批准/日期
1	新版发行	/	/	/
2				
3				
4				
5				

供应商对已承认物料做出工程变更或原料变更时，必须要本公司重新承认

Product Number:AN2400-155F01SM-900
Product Name: Antenna

Index:

- 1. Specification (规格)
- 2. Characteristics and Reliability Test (产品特性和可靠性测试标准)
- 3. Antenna - S Parameter Test Data (样品测试数据)
- 4. Antenna - Radiation Pattern Test Data (辐射模式测试数据)
- 5. Mechanical and Packing Drawing (图纸包装规范)

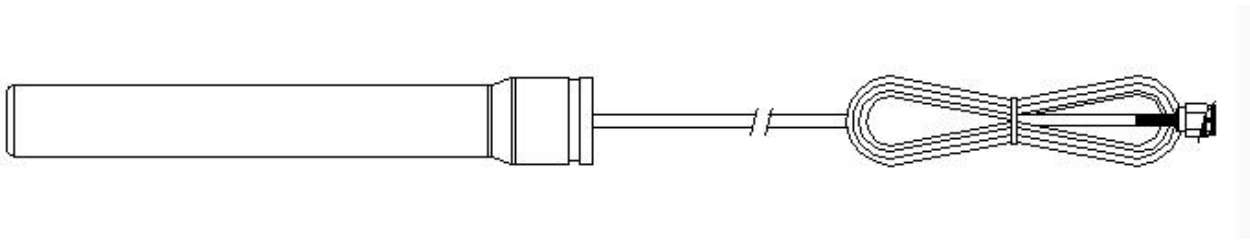
Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2025.02.08	初版	

Product Number:AN2400-155F01SM-900

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	1.45 dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Material of Plastic 塑胶材质	TPE
Cable Type 线材规格	RG178 ,BLACK
Connector Type 连接器规格	SMA PIUG
C. Environmental	
Storage Temperature 存储温度	- 30 °C ~ + 65°C
Operation Temperature 工作温度	- 30 °C ~ + 65°C
Antenna Color Storage life 天线颜色存储寿命	< 2 year

Product Number:AN2400-155F01SM-900

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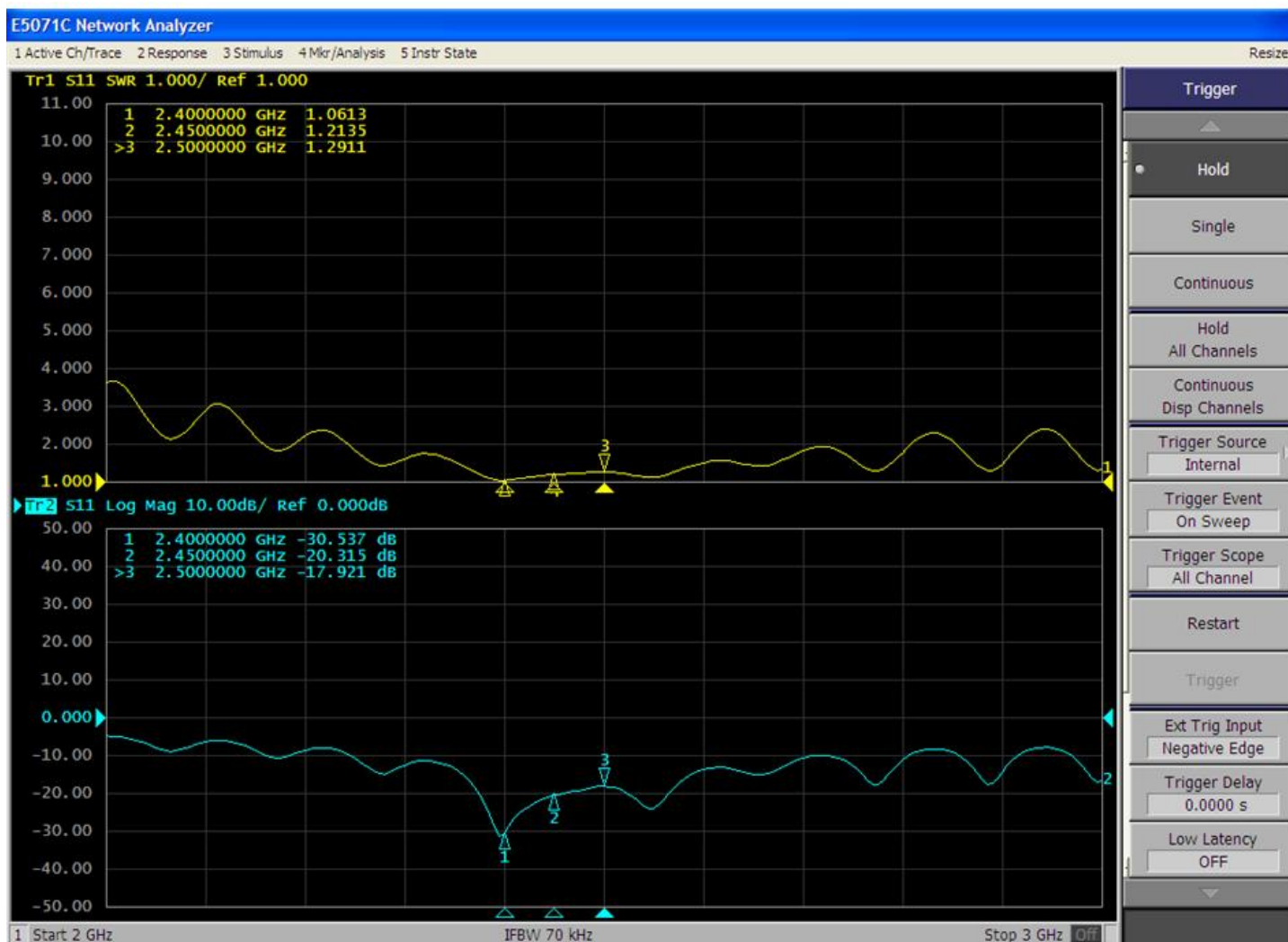
2. Characteristics and Reliability Test

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	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
3	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
4	Torque Test 扭力	Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal 单独定义产品端子之顺时针及逆时针扭力	1. Directive DUT specification 2. Frequency Tol.≤ 5% 符合待测物规范;频率偏移≤5%	PASS
5	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
6	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
7	Temperature and Humidity Chamber 恒温恒湿	GB / T 2423.3-2006 Temp: 65°C / 12 H; -30°C / 12H RH: ≥ 90%; Time: 24H 温度 65°C 测试 12H 转-30°C 测试 12H; 湿度≥ 90%; 时间 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5% 恢复 2H 后, 无明显外观不良;频率偏移≤5%	PASS
8	Aging test 老化	GB / T 2423.2 - 2008 Temp:65°C; Time: 24 hours 温度 65° C, 测试 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5% 无明显外观不良;频率偏移≤5%	PASS
9	RoHS	With Reference to IEC 62321:2008 with flow chart 参考 IEC 62321 测试流程	Directive RoHS 2011/65/EU 符合 RoHS 2015/863/EU 标准	PASS

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Product Name: Antenna

3. Antenna - S Parameter Test Data

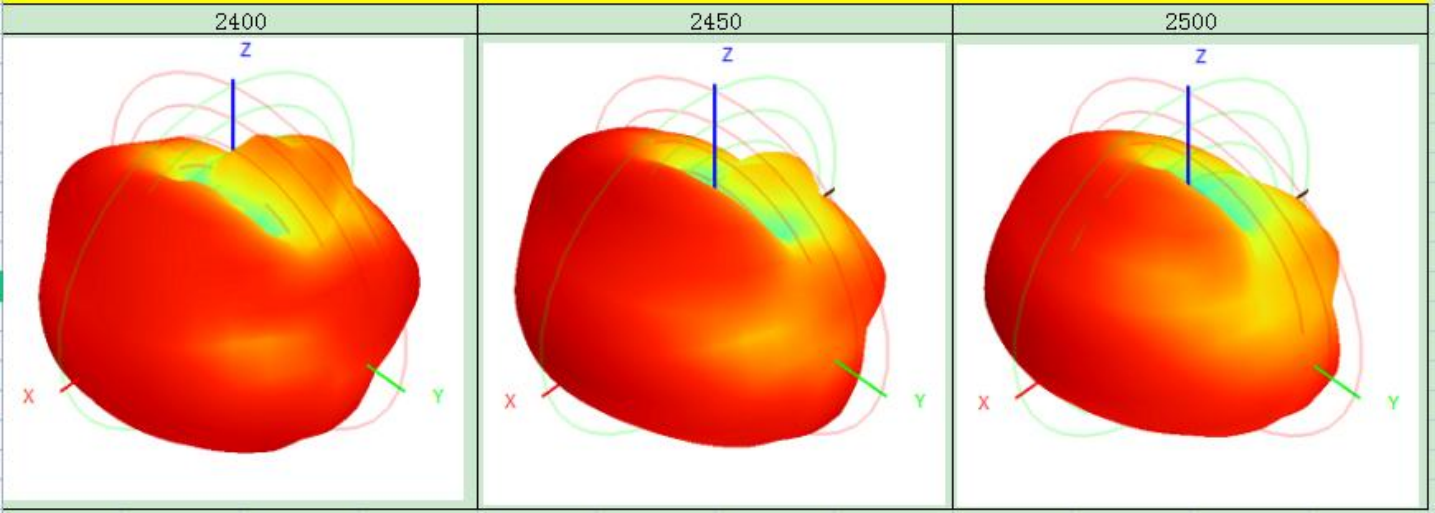


4. Antenna - Radiation Pattern Test Data

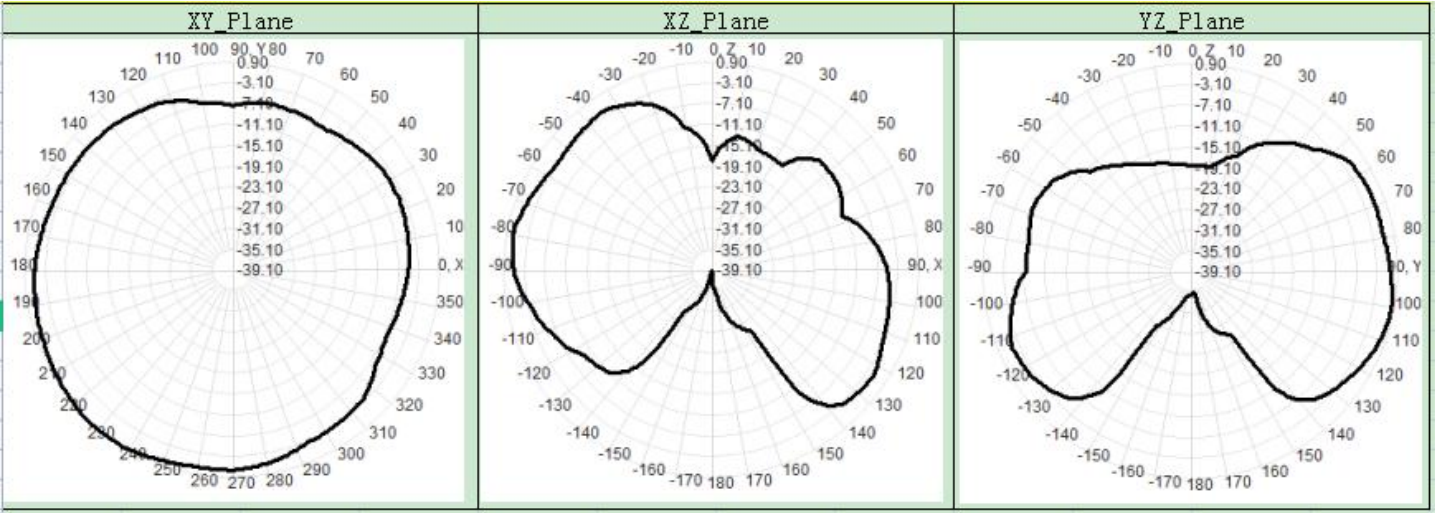
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	0.83	1.07	0.86	0.62	0.59	0.90	1.22	1.45	1.42	1.32	1.16
Efficiency (%)	37.11	37.85	37.31	35.46	34.69	34.39	34.61	35.89	34.77	33.22	31.72

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Product Name: Antenna

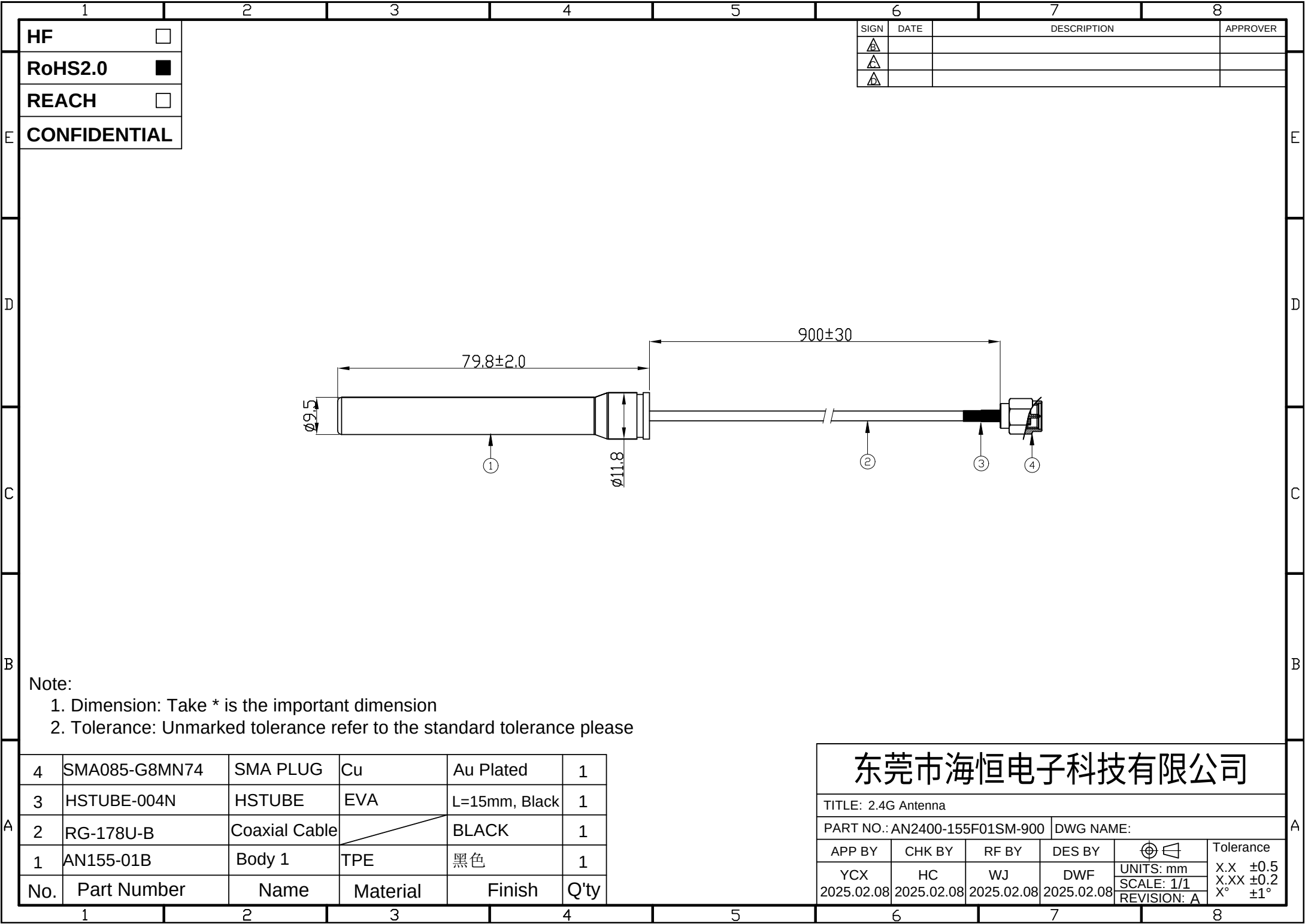
3D Radiation Pattern



2D Radiation Pattern



5. Mechanical Drawing See attached files



Note:

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

4	SMA085-G8MN74	SMA PLUG	Cu	Au Plated	1
3	HSTUBE-004N	HSTUBE	EVA	L=15mm, Black	1
2	RG-178U-B	Coaxial Cable		BLACK	1
1	AN155-01B	Body 1	TPE	黑色	1
No.	Part Number	Name	Material	Finish	Q'ty

东莞市海恒电子科技有限公司					
TITLE: 2.4G Antenna					
PART NO.: AN2400-155F01SM-900				DWG NAME:	
APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX	HC	WJ	DWF		X.X ±0.5
2025.02.08	2025.02.08	2025.02.08	2025.02.08		X.XX ±0.2
				UNITS: mm	X° ±1°
				SCALE: 1/1	
				REVISION: A	

HF	☐
RoHS2.0	☒
REACH	☐
CONFIDENTIAL	

SIGN	DATE	DESCRIPTION	APPROVER
			
			
			

產品包裝規範

PACKING CRITERION

Date: 2025.02.08

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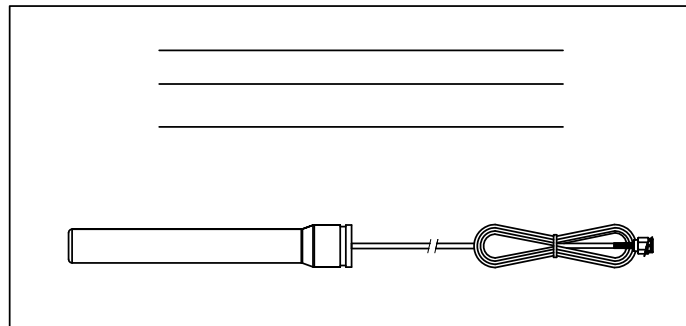
Part Number : AN2400-155F01SM-900

Revision : A

Name: Antenna

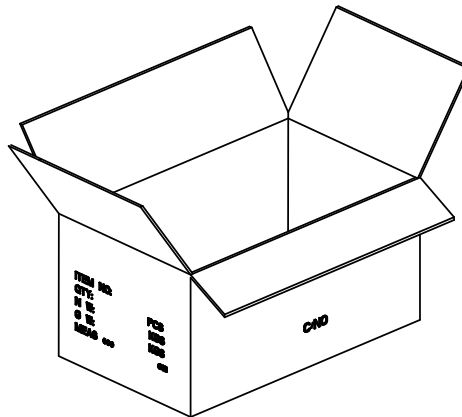
Customer : ALL

1 . Enter PE bag。



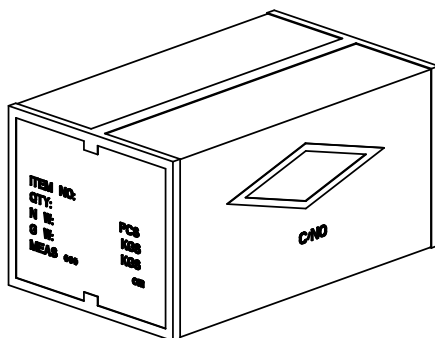
20pcs/ PE bag

2.PACKING 。

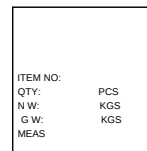


800pcs/Carton

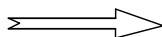
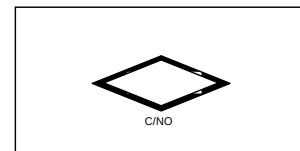
3. SEALING 。



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : DWF