



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN0915-12BC04SM-B

Product Name: Antenna

Specification For Approval

Date: 2025.5.28

Version: 1.0

客户名称

Customer:

海岛科技

客户料号

Customer P/N:

腾祥料号

T X P/N:

AN0915-12BC04SM-B

规格描述

Description:

915MHz 黑色天线 SMA 公头公针（丝印）

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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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	2025.5.28	初版	

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1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	902-928MHz
S.W.R. 驻波比	≤ 2.0
Antenna Gain 增益	1.83dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Material of Plastic 塑胶材质	TPE/ABS/PC+PBT
Cable Type 线材规格	RG178
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

Product Number: AN0915-12BC04SM-B

Product Name: Antenna

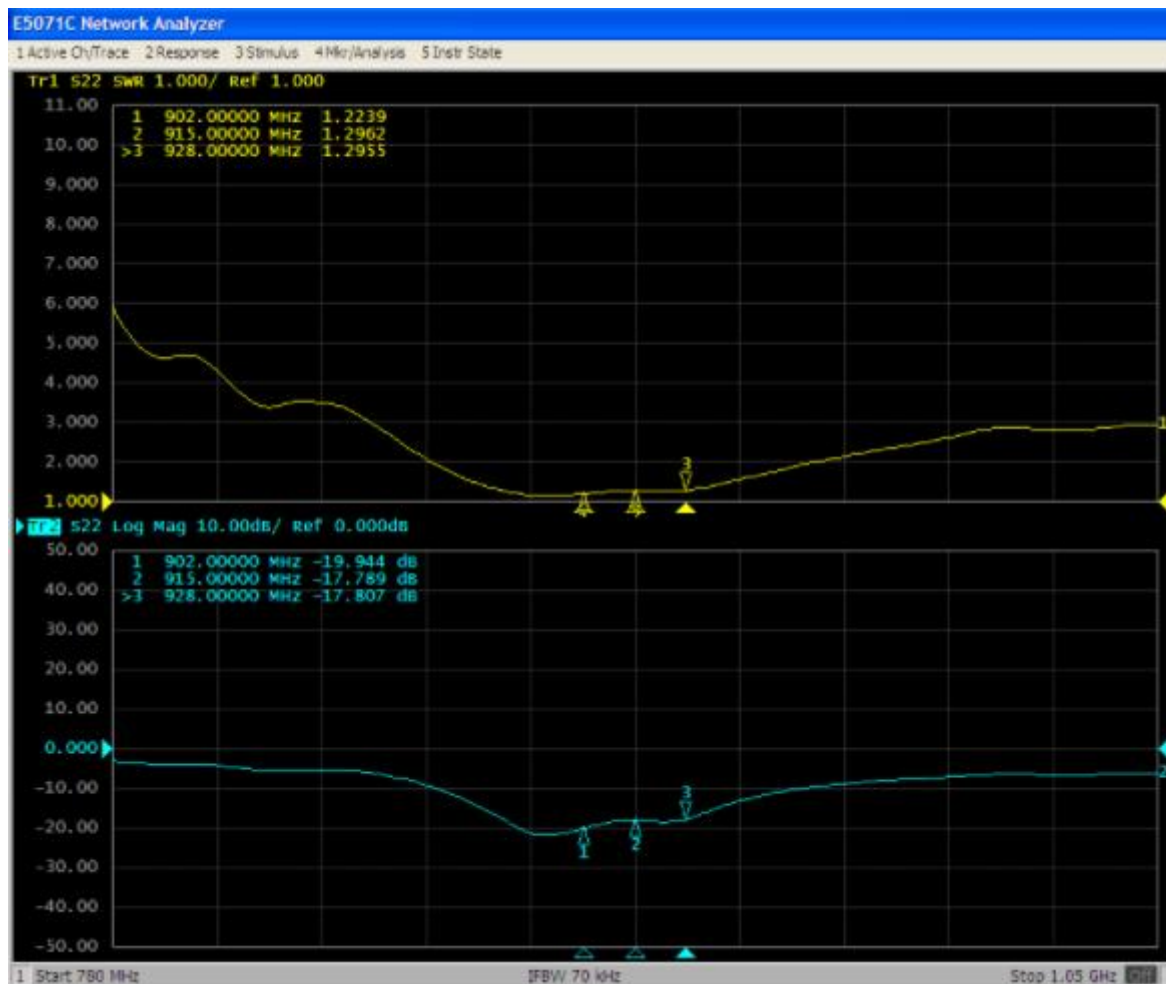
2. Characteristics and Reliability Test

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	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. $\leq 5\%$ 符合待测物规范; 频率偏移 $\leq 5\%$	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. $\leq 5\%$ 符合待测物规范; 频率偏移 $\leq 5\%$	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: $\geq 95\%$; 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
7	Temperature and Humidity Chamber 恒温恒湿	GB / T 2423.3-2006 Temp: 65°C / 12 H; -30°C / 12H RH: $\geq 90\%$; Time: 24H 温度 65°C 测试 12H 转 -30°C 测试 12H; 湿度 $\geq 90\%$; 时间 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. $\leq 5\%$ 恢复 2H 后, 无明显外观不良; 频率偏移 $\leq 5\%$	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. $\leq 5\%$ 无明显外观不良; 频率偏移 $\leq 5\%$	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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3. Antenna - S Parameter Test Data



4. Antenna - Radiation Pattern Test Data

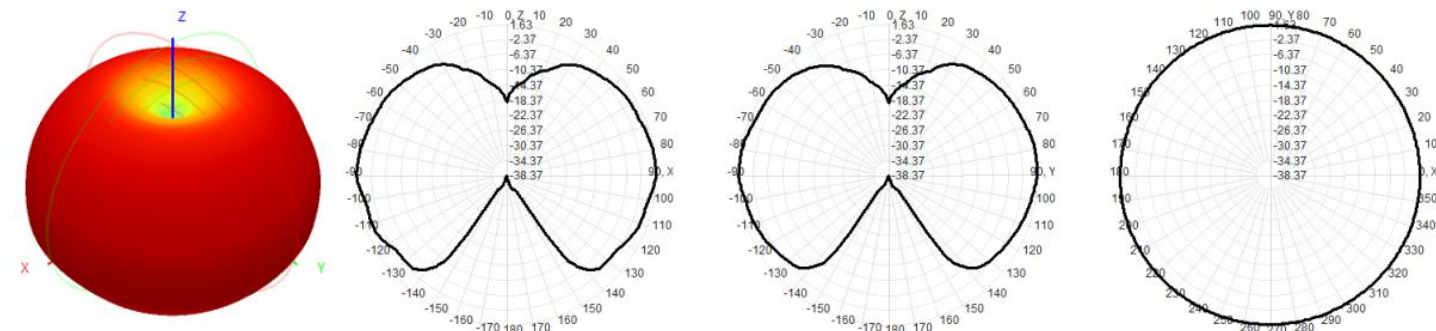
Frequency ID	1	2	3	4	5	6	7
Frequency (MHz)	902.0	905.0	910.0	915.0	920.0	925.0	928.0
Gain (dBi)	1.63	1.87	1.67	1.78	1.45	1.21	1.33
Efficiency (%)	73.74	77.05	77.69	78.78	78.93	77.33	75.18

XZ

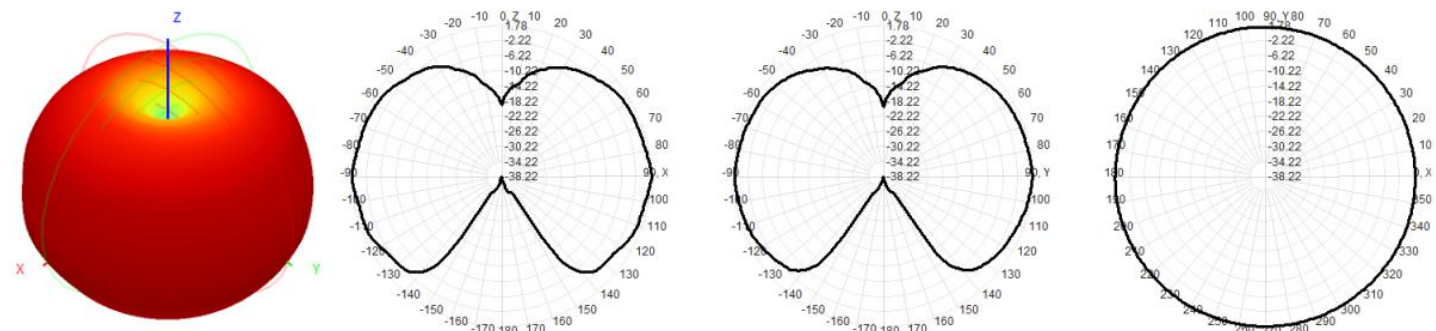
YZ

XY

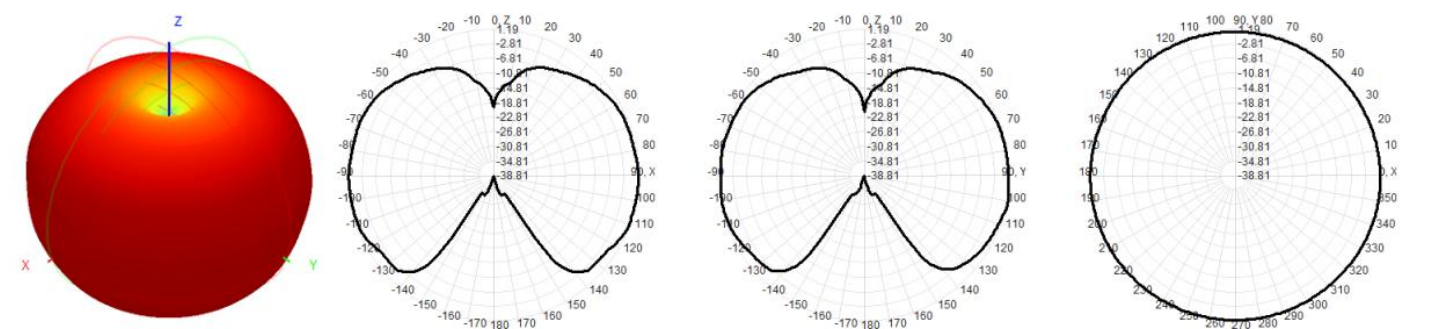
902MHz



915MHz



928MHz

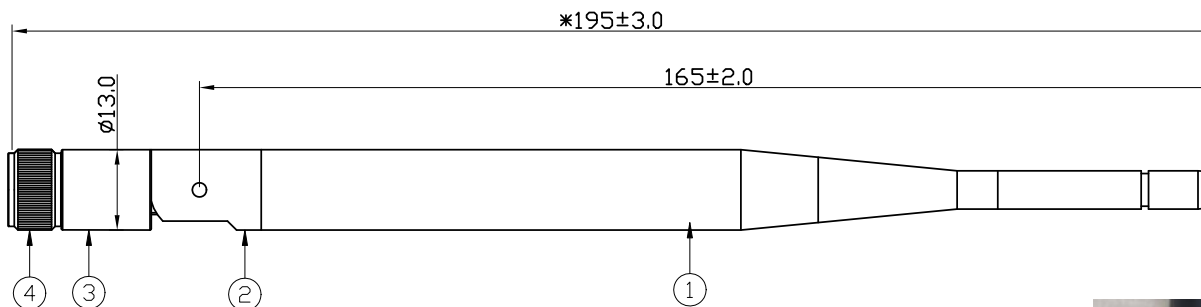
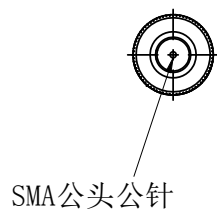


5. Mechanical Drawing See attached files

RoHS

Compatible

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



居中镭雕: 915MHz



Note:

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

4	SMA512-N8MNAN12-B	SMA plug	POM	BLACK	1
3	AN1201-05B	Body 3	PC+PBT	BLACK	1
2	AN9201-06B	Body 2	ABS	BLACK	1
1	AN9201-04B	Body 1	TPE	BLACK	1
No.	Part Number	Name	Material	Finish	Q'ty



Tengxiang Technology Inc.

TITLE: Antenna					
PART NO.: AN0915-12BC04SM-B				DWG NAME:	
APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX	HC	WJ	DWF		X.X ±0.5
2025.05.27	2025.05.27	2025.05.27	2025.05.27	UNITS: mm	X.XX ±0.2
				SCALE: 1/1	X° ±1
				REVISION: A	

產品包裝規範

PACKING CRITERION

Date: 2025.05.27

Page: 1 of 1

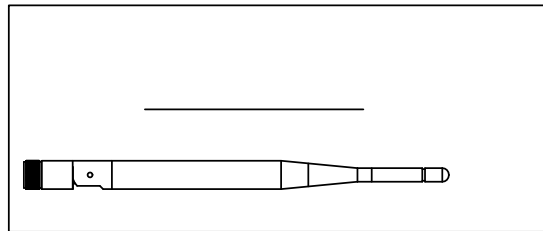
Part Number : AN0915-12BC04SM-B

Revision : A

Name: Antenna

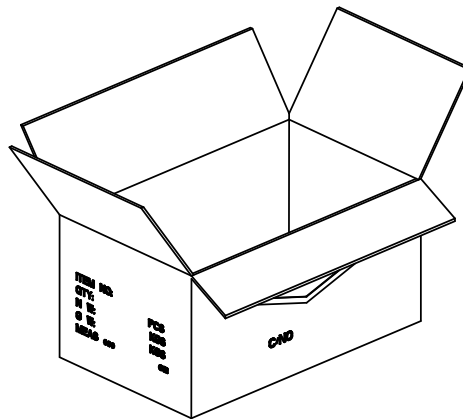
Customer : ALL

1 . Enter PE bag。



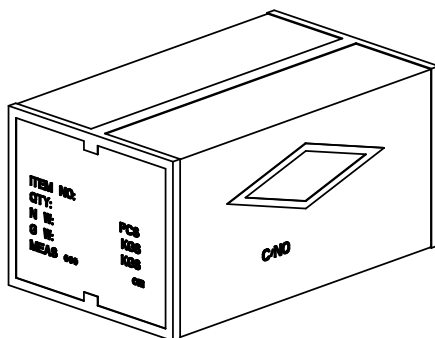
50pcs/ PE bag

2.PACKING 。

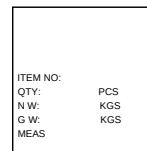


800pcs/Carton

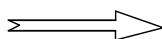
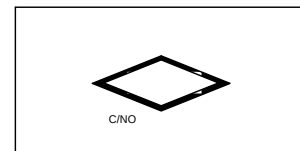
3. SEALING 。



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : DWF