



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: HG0915-0226FN-W

Product Name: Antenna

Specification For Approval

Date: 2025.2.19

Version: 1.0

客户名称

Customer:

客户料号

Customer P/N:

腾祥料号

TX P/N:

HG0915-0226FN-W

规格描述

Description:

915MHz 玻璃钢天线 N 头母头母针

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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东莞市腾祥电子有限公司

Product Number: HG0915-0226FN-W

Product Name: Antenna

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Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2025.2.19	初版	

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1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	902-928 MHz
S.W.R. 驻波比	≤ 2.0
Antenna Gain 增益	2.86dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Material of Plastic 塑胶材质	白色玻璃纤维管
Connector Type 连接器规格	N JACK
Waterproof 防水等级	IP66
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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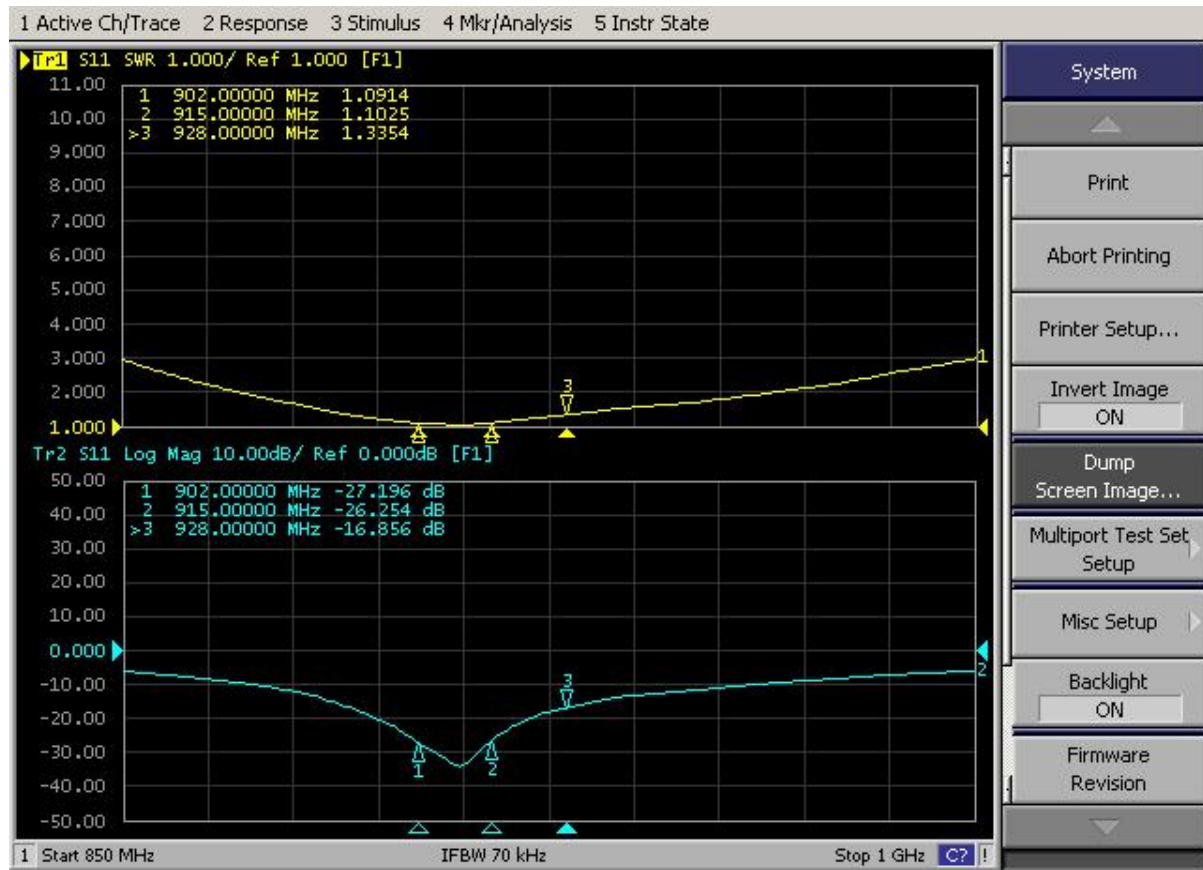
2. Characteristics and Reliability Test

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	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 SMA 拉力>5kg	1. Directive DUT specification 2. Frequency Tol.≤5% 符合待测物规范;频率偏移≤5%	PASS
4	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
5	Waterproof 防水	With Reference to IEC 60529 // IP Code Definition 参考 IEC60529 IP 定义 IP66	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: 80°C / 12 H; -40°C / 12H RH: ≥ 90%; Time: 24H 温度 80°C 测试 12H 转-40°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	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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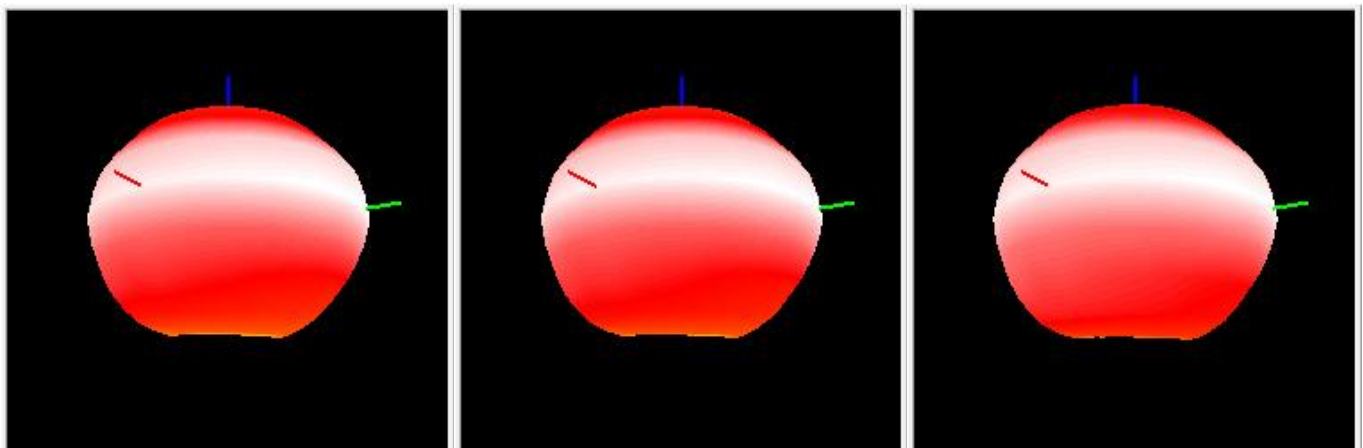
Product Name: Antenna

3. Antenna - S Parameter Test Data



4. Antenna - Radiation Pattern Test Data

Frequency (MHz)	902.0	915.0	928.0
Efficiency (%)	92.20	90.00	92.80
Gain (dBi)	2.66	2.61	2.86



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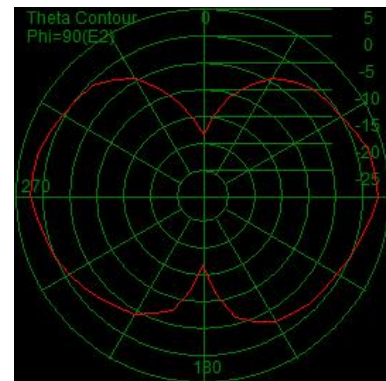
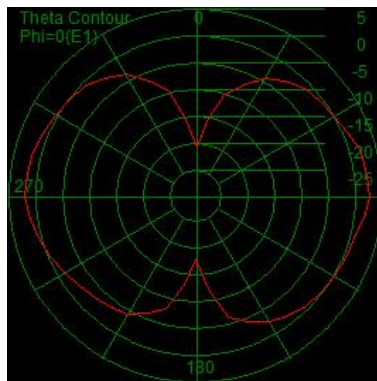
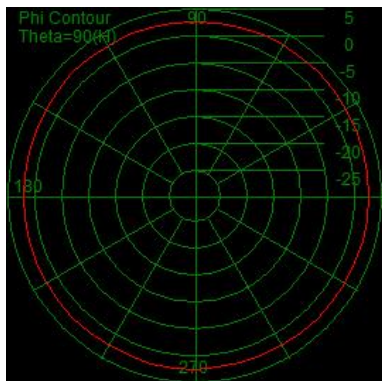
Product Name: Antenna

XY_Plane

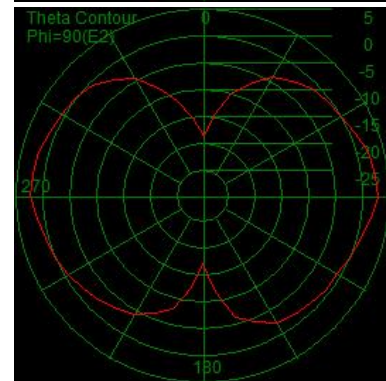
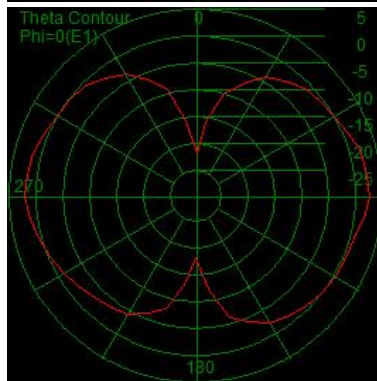
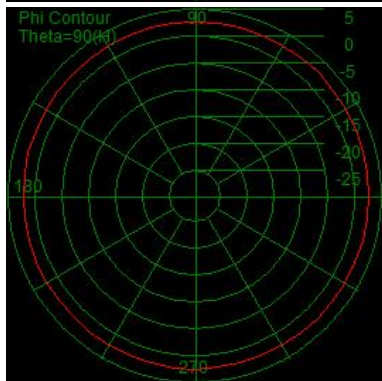
XZ_Plane

YZ_Plane

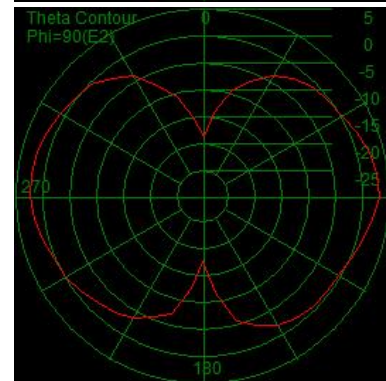
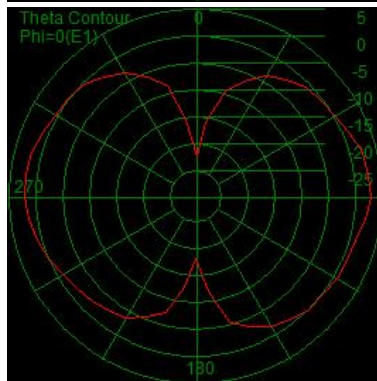
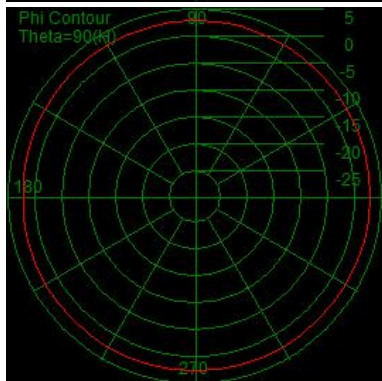
902MHz



915MHz



928MHz

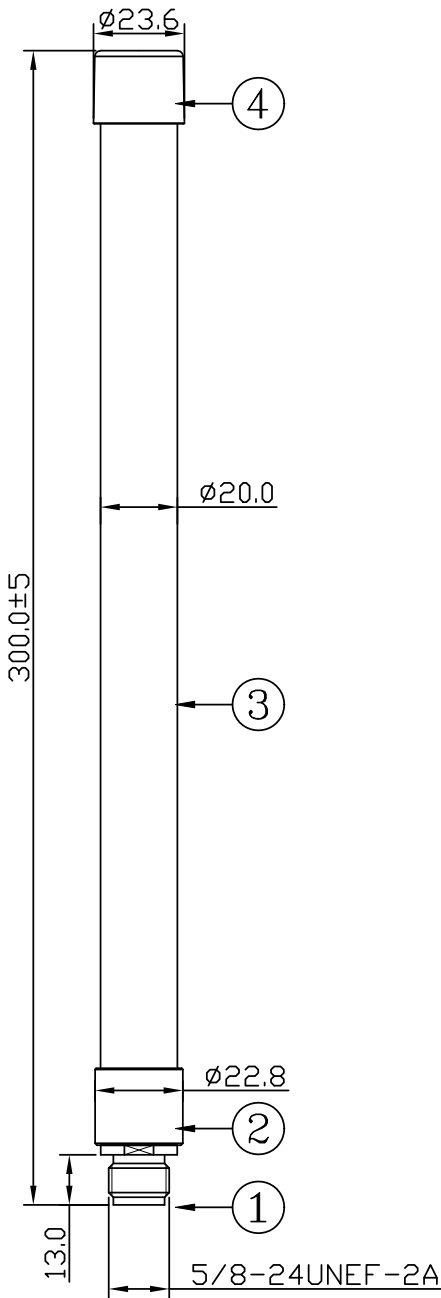


5. Mechanical Drawing See attached files

RoHS

Compatible

SIGN	DATE	DESCRIPTION	APPROVER



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

4		COVER	ABS	White	1
3		BODY	GLASS FIBER	White	1
2		TUBE	Al	Anode	1
1		N JACK	Cu	Ni PLATED	1
No.	Part Number	Description	Material	Finish	Q'ty

Tengxiang Technology Inc.

TITLE: 915MHz Antenna

PART NO.: HG0915-0226FN-W

DWG NAME:

APP BY	CHE BY	RF BY	DES BY		Tolerance
YCX	TOM	WJ	HC	UNITS: mm	X.X ± 0.3
2025.02.14	2025.02.14	2025.02.14	2025.02.14	SCALE: 1/1	X.XX ± 0.15
				REVISION: A	X° ± 3°

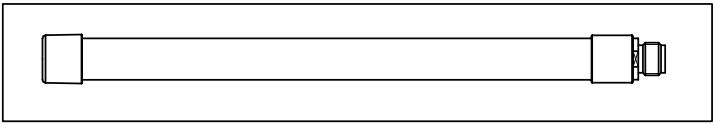
PACKING CRITERION

Date: 2025.02.14

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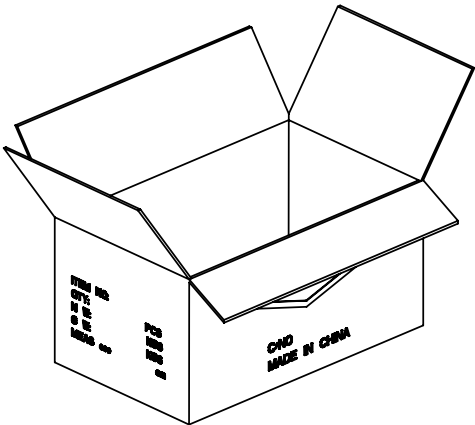
Part Number : HG0915-0226FN-W	Revision : A
Name: Antenna	Customer : ALL

一



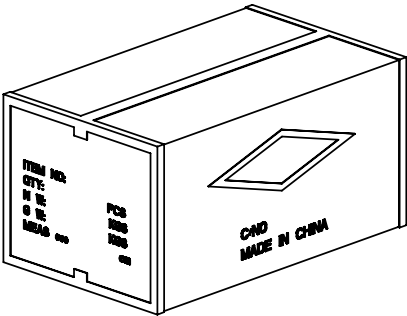
1pcs/珍珠棉袋

二



80pcs/Carton 按实际装箱数量为准

三



APPROVED BY: YCX

CHECKED BY: TOM

DESIGNED BY: CJ