



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number:AN0915-143F02BX-W

Product Name: Antenna

Specification For Approval

Date: 2025.2.20

Version: 1.0

客户名称

Customer:

梵影

客户料号

Customer P/N:

腾祥料号

TX P/N:

AN0915-143F02BX-W

规格描述

Description : 915MHz 白色天线 1.13mm 黑色线 L=40mm+IPEX (4 代)

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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Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2025.2.20	初版	

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1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	915MHz
S.W.R. 驻波比	≤ 2.0
Antenna Gain 增益	0.26dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Material of Plastic 塑胶材质	ABS+PC+UV
Cable Type 线材规格	OD1.13mm , Black
Connector Type 连接器规格	I-PEX
C. Environmental	
Storage Temperature 存储温度	- 30 °C ~ +65 °C
Operation Temperature 工作温度	- 30 °C ~ +65 °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	1. Directive DUT specification 2. Frequency Tol. $\leq 5\%$ 符合待测物规范; 频率偏移 $\leq 5\%$	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	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
6	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
7	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
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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3. Antenna - S Parameter Test Data



4. Antenna - Radiation Pattern Test Data

Frequency ID	1	2	3	4	5	6	7
Frequency (MHz)	900.0	905.0	910.0	915.0	920.0	925.0	930.0
Gain (dBi)	0.10	0.15	0.09	0.26	0.18	0.20	0.11
Efficiency (%)	34.23	35.97	36.88	37.08	34.55	34.50	33.48

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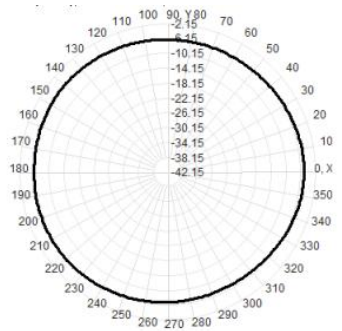
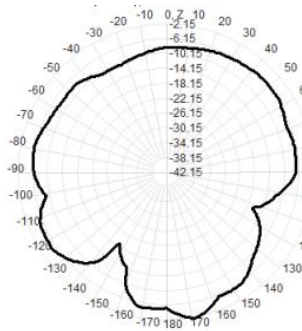
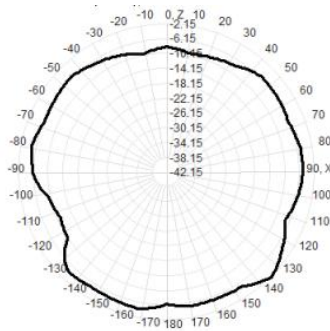
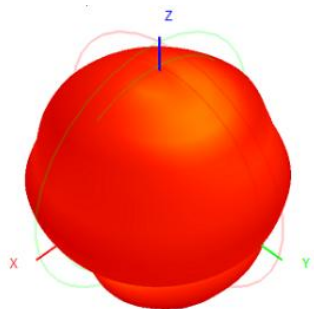
Product Name: Antenna

XZ

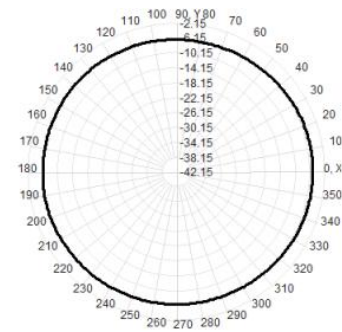
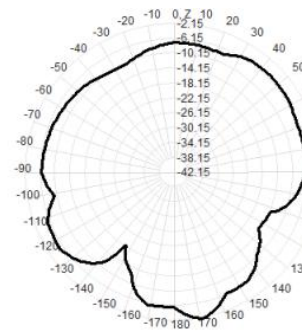
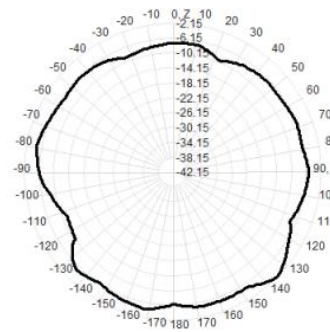
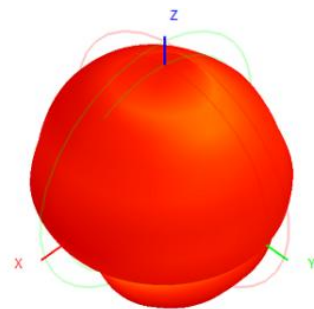
YZ

XY

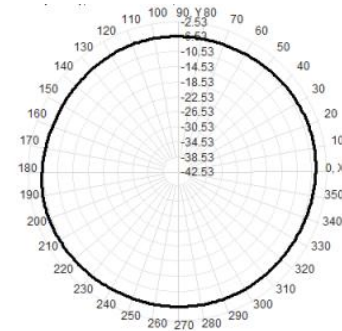
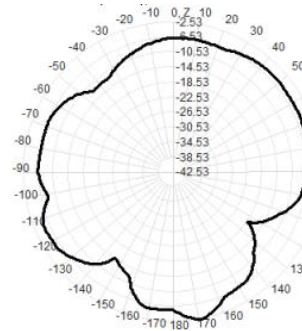
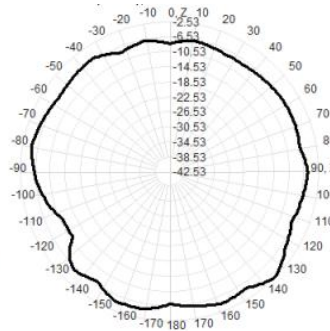
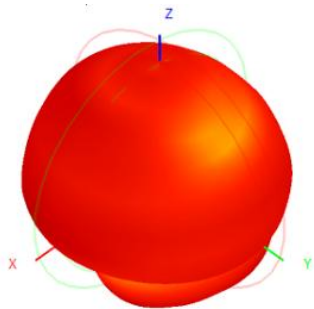
900MHz



915MHz



930MHz



5. Mechanical Drawing See attached files

產品包裝規範

PACKING CRITERION

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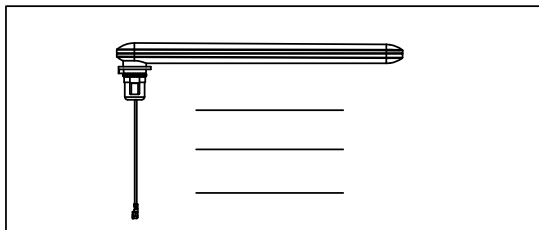
Part Number : AN0915-143F02BX-W

Revision : A

Name: Antenna

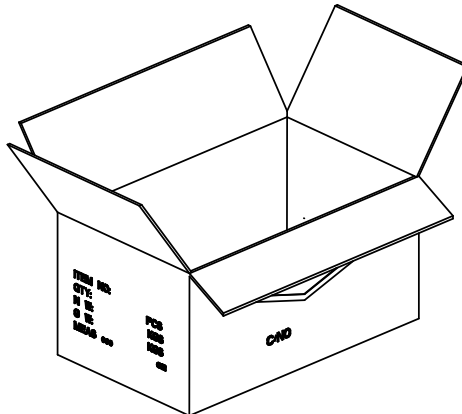
Customer : ALL

1 . Enter PE bag。



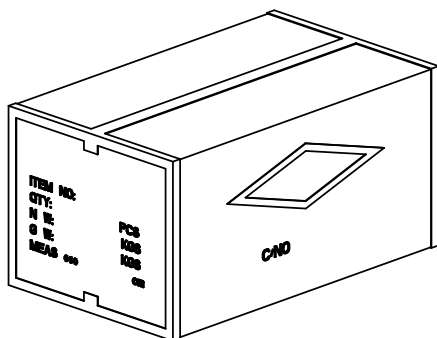
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2.PACKING 。

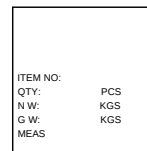


700pcs/Carton

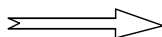
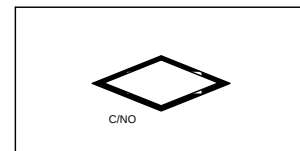
3. SEALING 。



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : DWF