



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN2400-93DMTRS-B

Product Name: Antenna

Specification For Approval

Date: 2025.8.21

Version: 1.0

客户名称

Customer: _____

客户料号

Customer P/N: _____

腾祥料号

TX P/N:

AN2400-93DMTRS-B

规格描述

Description :

2.4G 白色天线 SMA 公头母针

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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Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2025.8.21	初版	

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1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	2400-2500MHz
S.W.R. 驻波比	<= 2.0
Antenna Gain 增益	4.34dBi
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
Connector Type 连接器规格	RP SMA PIUG
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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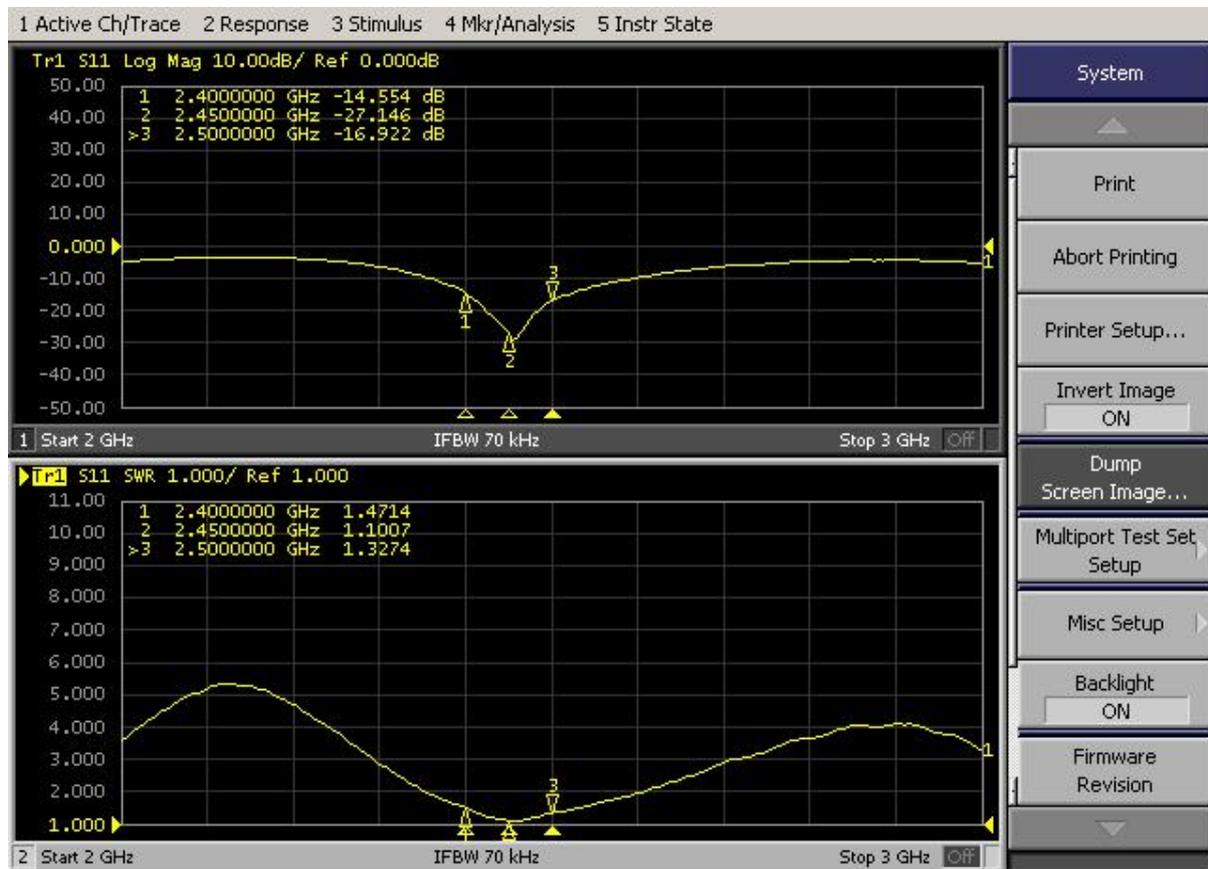
2. Characteristics and Reliability Test

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	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: 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 Aging test 老化	GB / T 2423.2 - 2008 Temp:80°C; Time: 24 hours 温度 80° 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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3. Antenna - S Parameter Test Data

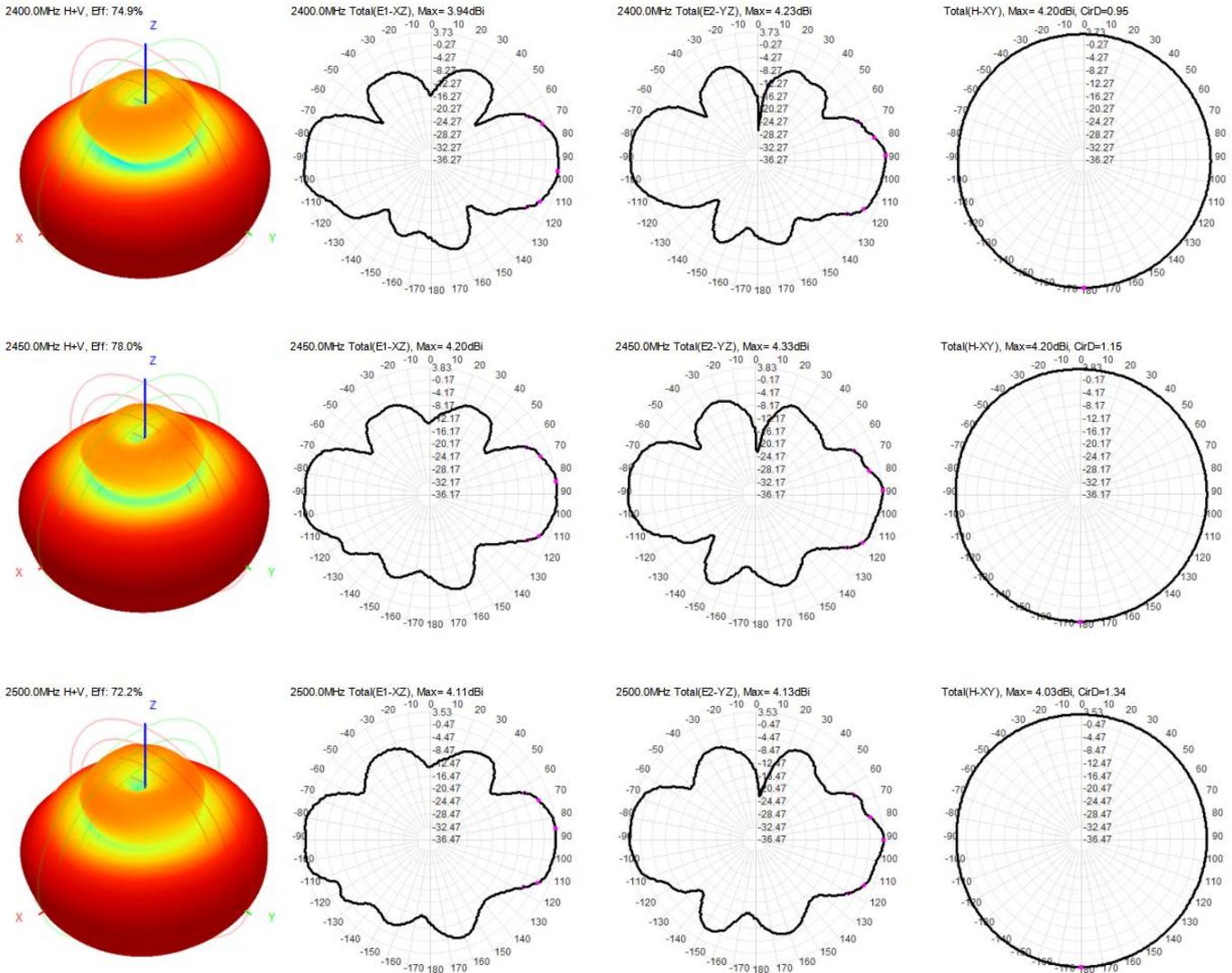


4. Antenna - Radiation Pattern Test Data

Frequency ID	1	6	11
Frequency (MHz)	2400.0	2450.0	2500.0
Gain (dBi)	4.28	4.34	4.13
Efficiency (%)	74.94	77.97	72.16

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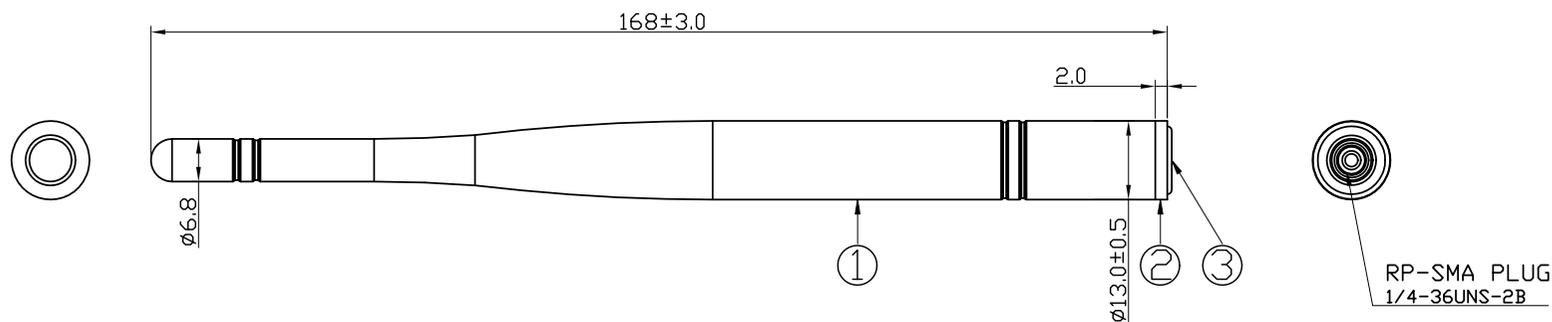


5. Mechanical Drawing See attached files

RoHS

Compatible

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



Note:

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



Tengxiang Technology Inc.

TITLE: 2.4GHz Antenna

PART NO.: AN2400-93DMTRS-B

DWG NAME:

APP BY	CHK BY	RF BY	DES BY	UNITS: mm SCALE: 1/1 REVISION: A	Tolerance
YCX	HC	WJ	DWF		X.X ±0.5 X.XX ±0.2 X° ±1
2025.08.20	2025.08.20	2025.08.20	2025.08.20		

No.	Part Number	Name	Material	Finish	Q'ty
3		Silicone ring	SR	BLACK	1
2	SMA141-N8MR78	RP SMA PLUG	CU	Ni Plated	1
1	AN9301-01W	Body1	TPE	WHITE	1

產品包裝規範

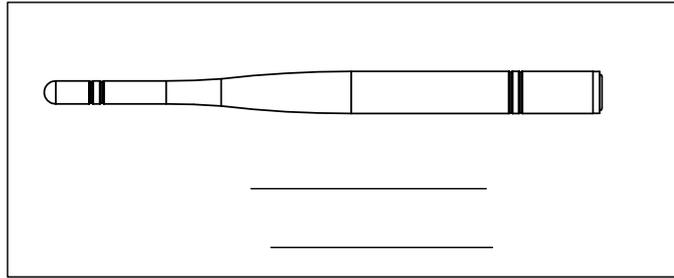
PACKING CRITERION

Date: 2025.08.20

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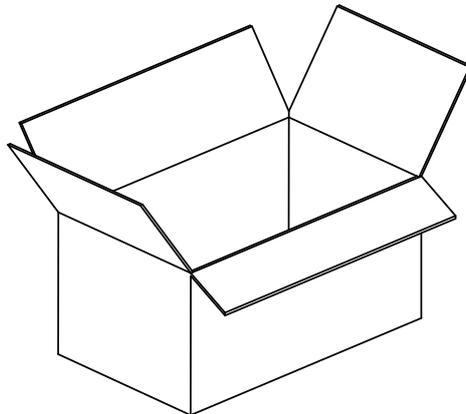
Part Number : AN2400-93DMTRS-B	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag.



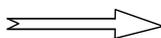
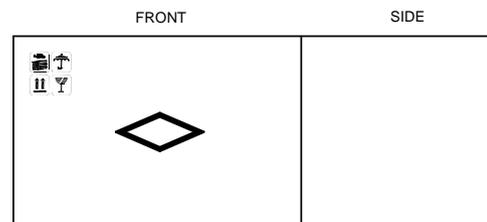
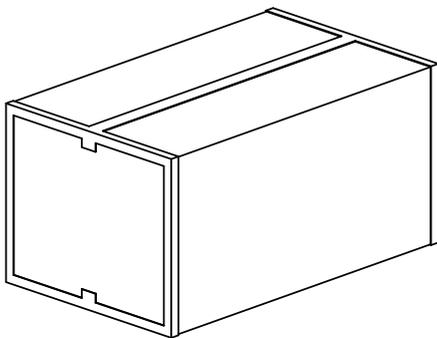
50pcs/ PE bag

2.PACKING ◦



300pcs/Carton

3. SEALING ◦



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : DWF