



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN2400-11BC15SM-W

Product Name: Antenna

Specification For Approval

Date: 2025.4.24

Version: 1.0

客户名称

Customer:

同为数码

客户料号

Customer P/N:

腾祥料号

T X P/N:

AN2400-11BC15SM-W

规格描述

Description :

2.4G 白色天线 SMA 公头公针（防水款）

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: AN2400-11BC15SM-W

Product Name: Antenna

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Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2025.4.24	初版	

Product Number: AN2400-11BC15SM-W

Product Name: Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	2400-2500MHz
S.W.R. 驻波比	≤ 2.0
Antenna Gain 增益	3.02dBi
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/POM
Connector Type 连接器规格	SMA PIUG
Waterproof 防水等级	IP66
C. Environmental	
Storage Temperature 存储温度	- 30°C ~ +65 °C
Operation Temperature 工作温度	- 30°C ~ +65 °C

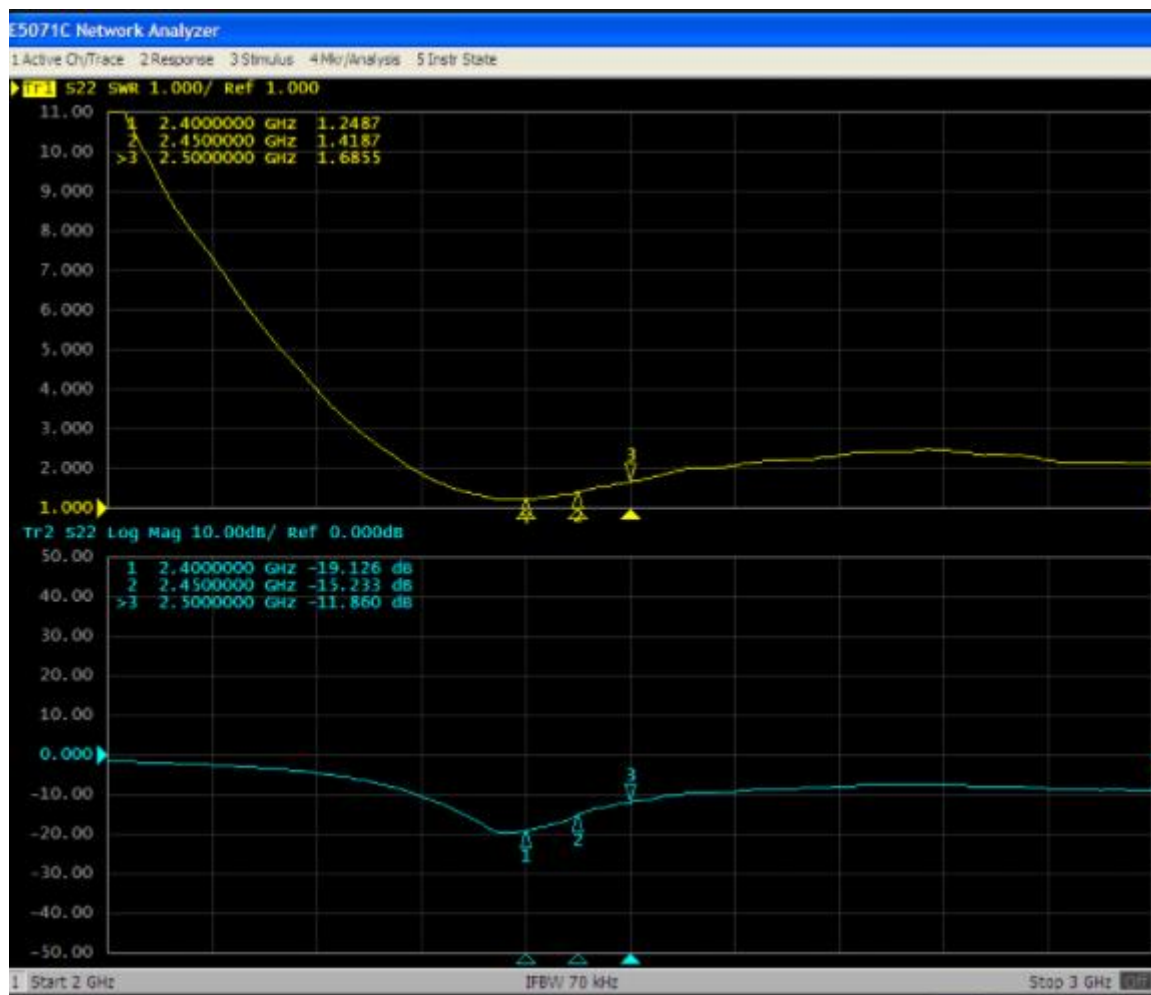
2. Characteristics and Reliability Test

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	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: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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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)	2.78	2.56	2.47	2.62	2.80	3.02	2.97	2.80	2.77	2.67	2.78
Efficiency (%)	71.71	71.00	75.23	70.89	73.32	71.11	70.46	70.90	70.09	70.37	70.50

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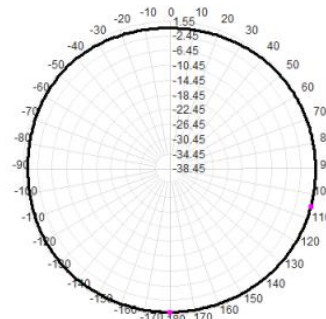
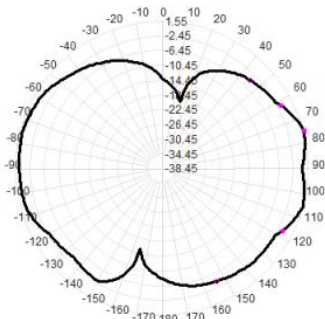
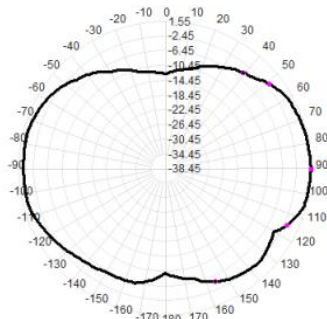
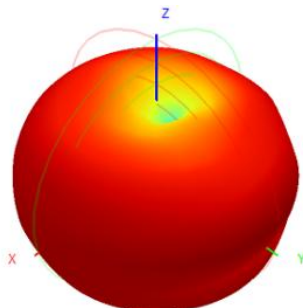
Product Name: Antenna

XZ

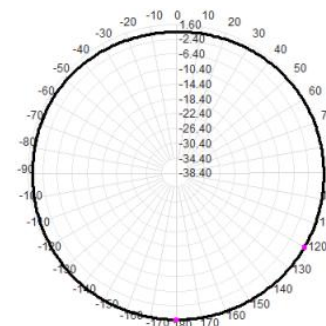
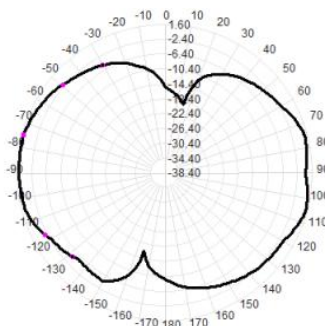
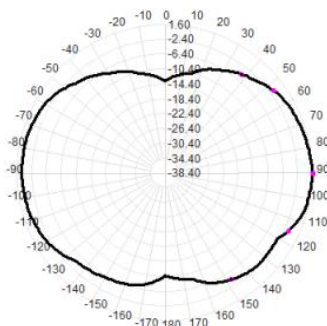
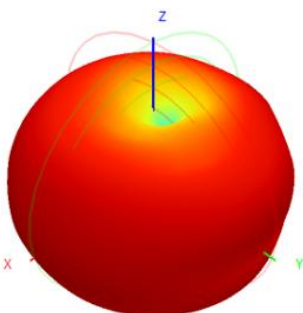
YZ

XY

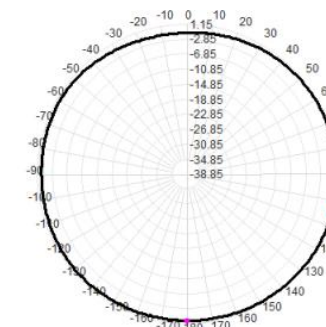
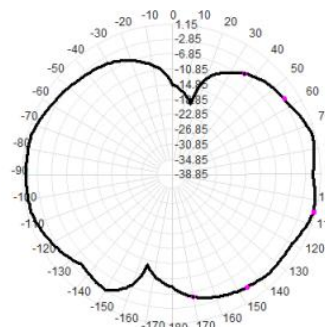
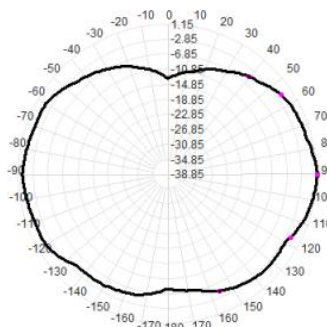
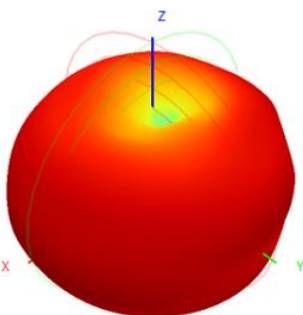
2400MHz



2450MHz



2500MHz

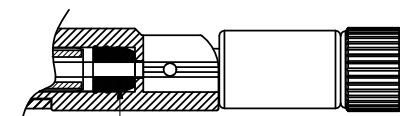


5. Mechanical Drawing See attached files

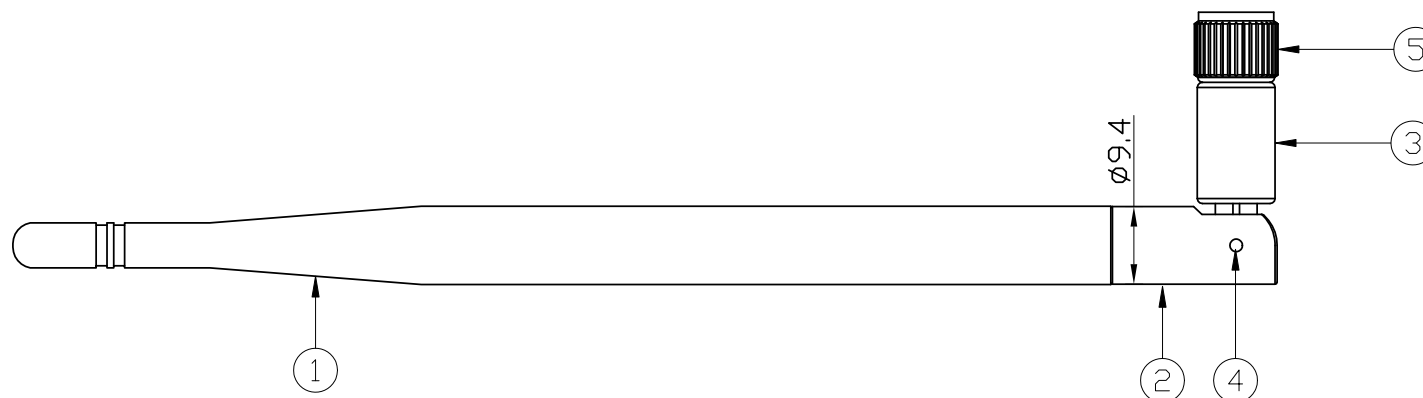
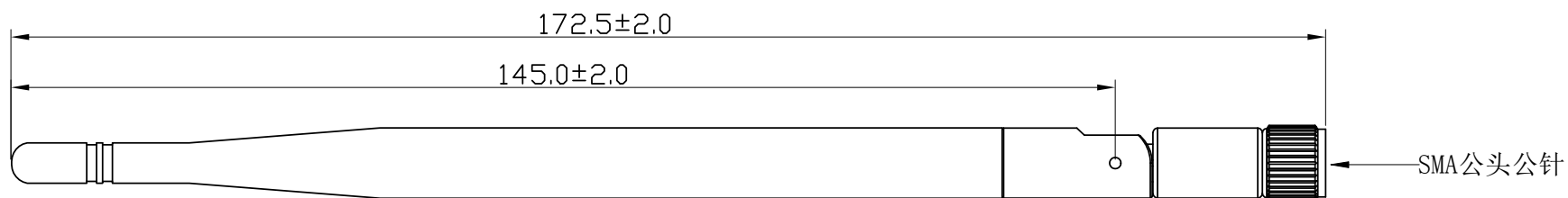
RoHS

Compatible

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



⑥ 连接筒内有硅胶塞



Note:

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

6	PLUG-5750	硅胶塞	硅胶	透明	1
5	SMA508-N8MNA02-W	SMA Plug	POM	White	1
4	AN01-1215-PW-1	Hinge Pin	POM	White	2
3	AN0202-01WT198	Body3	PC+PBT	White	1
2	AN58-02WT198	Body2	ABS	White	1
1	AN58-03WT198	Body1	TPE	White	1
No.	Part Number	Name	Material	Finish	Q'ty



Tengxiang Technology Inc.

TITLE: 2.4G Antenna

PART NO.: AN2400-11BC15SM-W

DWG NAME:

APP BY	CHK BY	RF BY	DES BY	UNITS: mm	Tolerance
YCX	HC	WJ	DWF	SCALE: 1/1	X.X ±0.5
2025.04.22	2025.04.22	2025.04.22	2025.04.22	REVISION: A	X.XX ±0.2
					X° ±1

產品包裝規範

PACKING CRITERION

Date: 2025.04.22

Page: 1 of 1

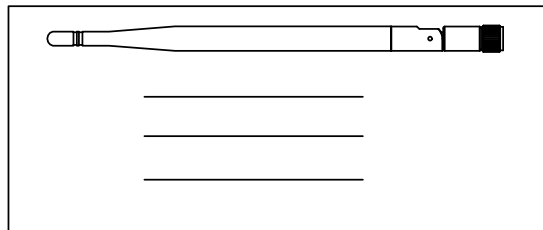
Part Number : AN2400-11BC15SM-W

Revision : A

Name: Antenna

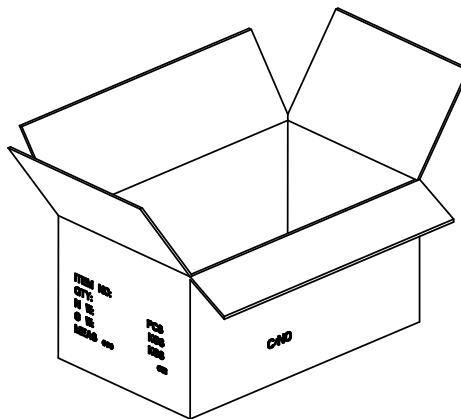
Customer : ALL

1 . Enter PE bag。



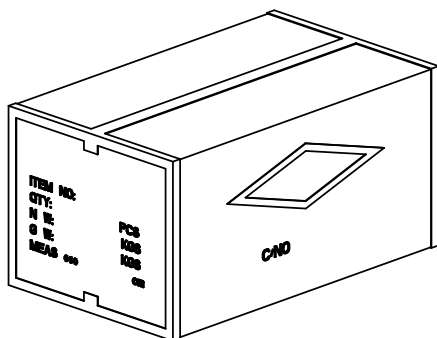
50pcs/ PE bag

2.PACKING 。

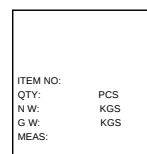


1000pcs/Carton

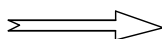
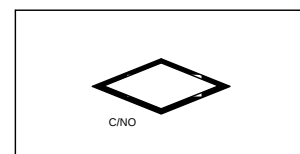
3. SEALING 。



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : DWF