



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number:AN2400-12F24GX-B

Product Name: Antenna

Specification For Approval

Date: 2025.4.16

Version: 1.0

客户名称

Customer:

TongweiDigital

客户料号

Customer P/N:

腾祥料号

T X P/N:

AN2400-12F24GX-B

规格描述

Description :

2.4G Glue rod antenna 1.13mm Grey line
L=185mm+IPEX

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

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Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2025.4.16	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	3.57dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Material of Plastic 塑胶材质	TPEE/ABS/PC+PBT
Cable Type 线材规格	OD1.13mm, gray
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
Antenna Color Storage life 天线颜色存储寿命	< 2 year

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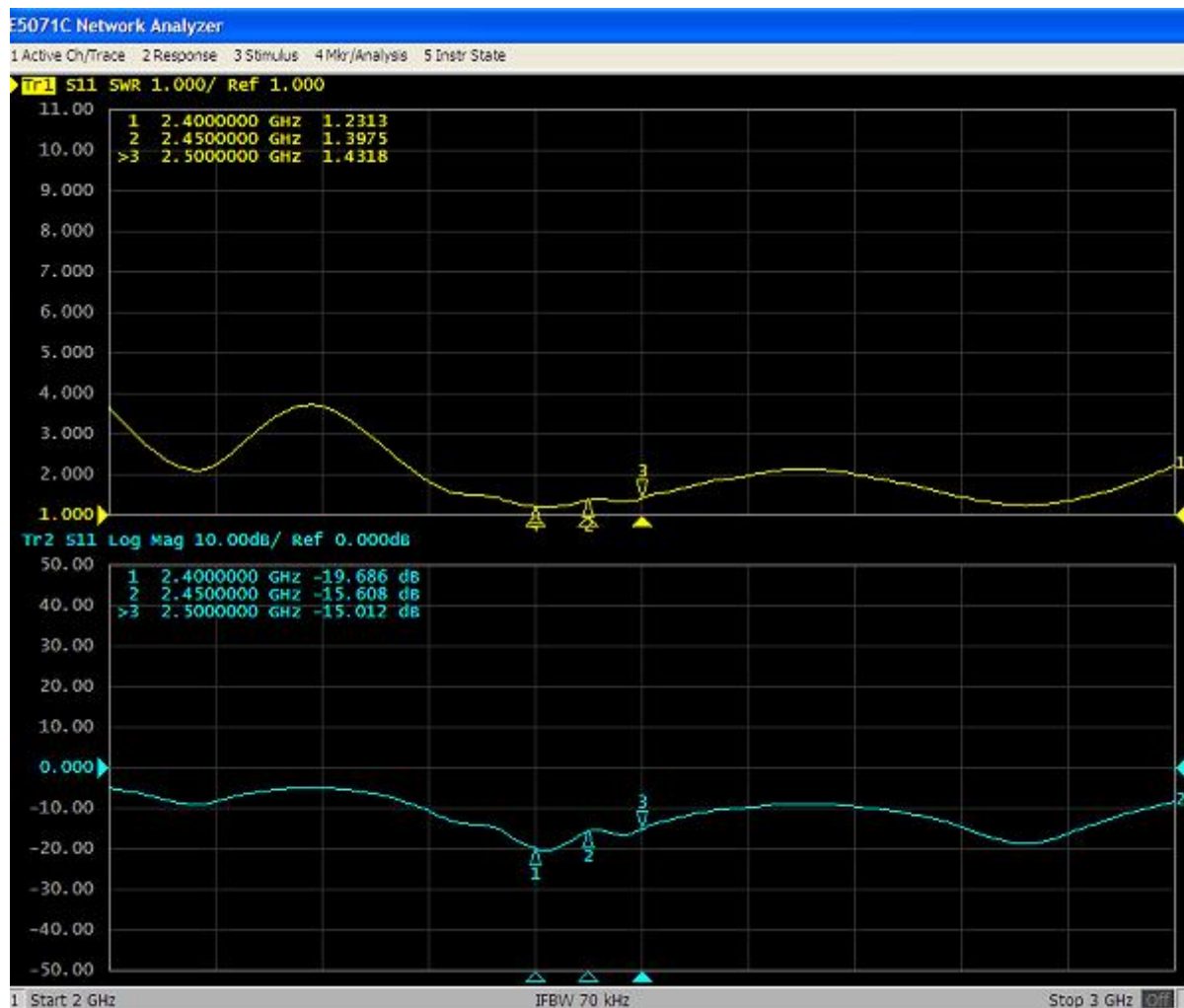
2. Characteristics and Reliability Test

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	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)	3.35	3.57	3.47	3.48	3.38	3.33	3.08	3.20	3.22	3.30	3.40
Efficiency (%)	57.42	60.09	58.74	59.07	58.86	57.84	56.09	57.88	55.92	56.03	54.27

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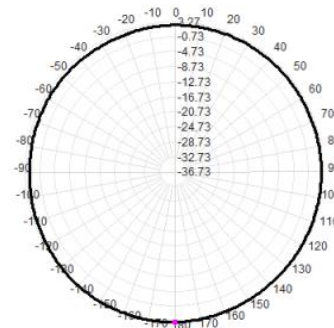
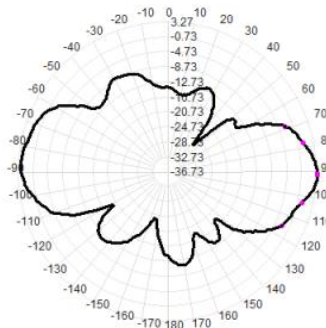
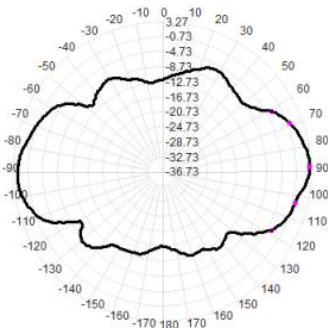
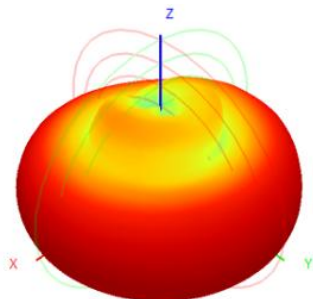
Product Name: Antenna

XZ

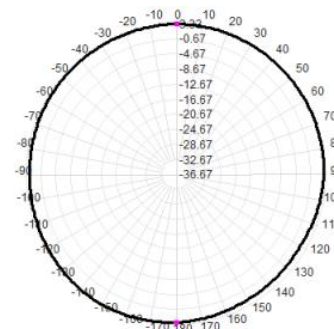
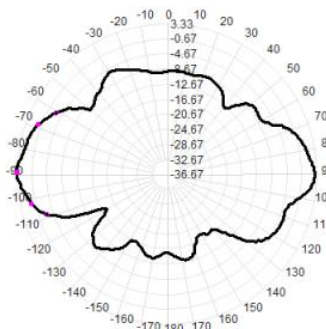
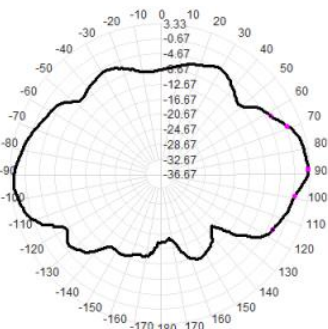
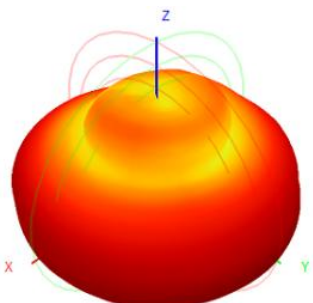
XZ

XY

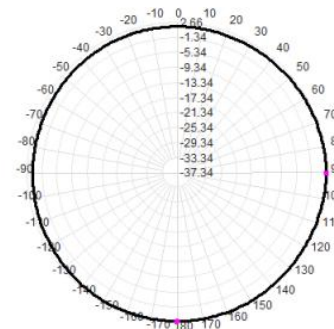
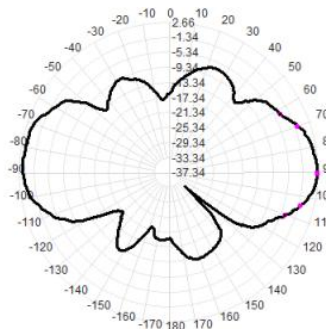
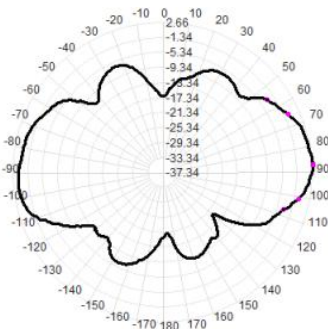
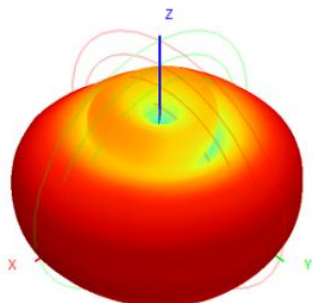
2400MHz



2450MHz



2500MHz



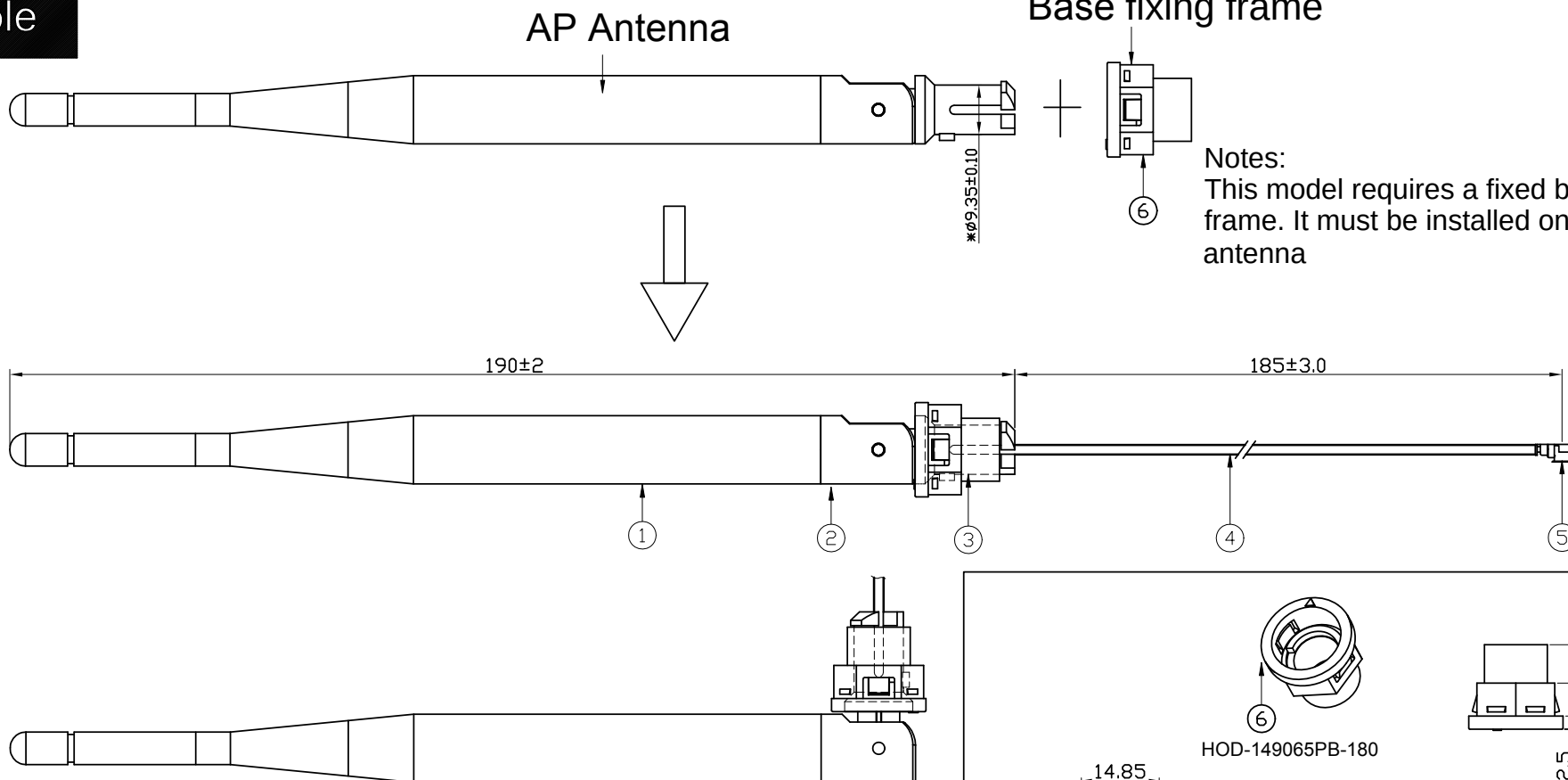
5. Mechanical Drawing See attached files

RoHS

Compatible

Antenna type:External antenna

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



Note:

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

6	HOD-149065PB-180	Holder	POM	Ø18.0*16.1mm	1
5	CR-113-ZP-A	IPEX	CU	Au Plated	1
4	CB-113GS	Cable		Φ1.13mm , GRAY	1
3	AN9201-09B	Body 3	PC+PBT	Black	1
2	AN9201-06B	Body 2	ABS	Black	1
1	AN9201-04B	Body 1	TPEE	Black	1
No.	Part Number	Name	Material	Finish	Q'ty



Tengxiang Technology Inc.

TITLE: 2.4GHz Antenna

PART NO.: AN2400-12F24GX-B

DWG NAME:

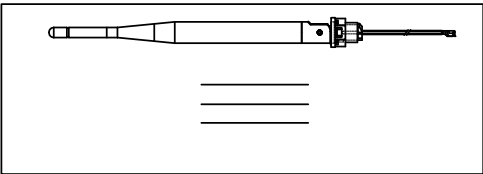
APP BY	CHK BY	RF BY	DES BY	UNITS: mm	Tolerance
YCX	HC	WJ	DWF	SCALE: 1/1	X.X ±0.5
2025.04.16	2025.04.16	2025.04.16	2025.04.16	REVISION: A	X.XX ±0.2
					X° ±1

PACKING CRITERION

Date: 2025.04.16

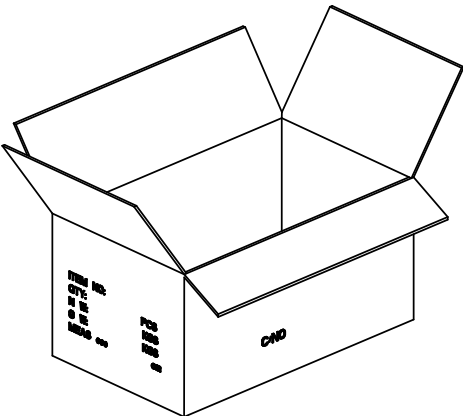
Part Number : AN2400-12F24GX-B	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。



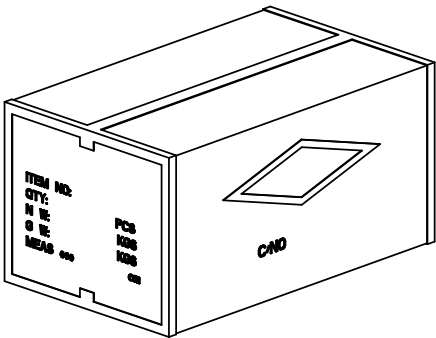
50pcs/ PE bag

2.PACKING 。

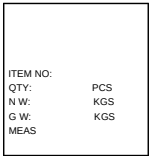


800pcs/Carton

3. SEALING 。



SIDE



FRONT

