



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN5000-SNA853240

Product Name: Antenna

Specification For Approval

Date: 2025.2.22

Version: 1.0

客户名称

Customer:

Xianzhi

客户料号

Customer P/N:

ANT000098

腾祥料号

T X P/N:

AN5000-SNA853240

规格描述

Description :

2.4G/5G Sheet metal antenna

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	江美如	Q.C.DEPT. 品管	
APPROVED BY 核准	韦佳	APPROVED BY 核准	



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Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2025.2.22		

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1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	2400-2500MHz/5150-5850MHz
S.W.R. 驻波比	/<= 2.0
Antenna Gain 增益	0 dBi / 3.17dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Material 材质	Calcite
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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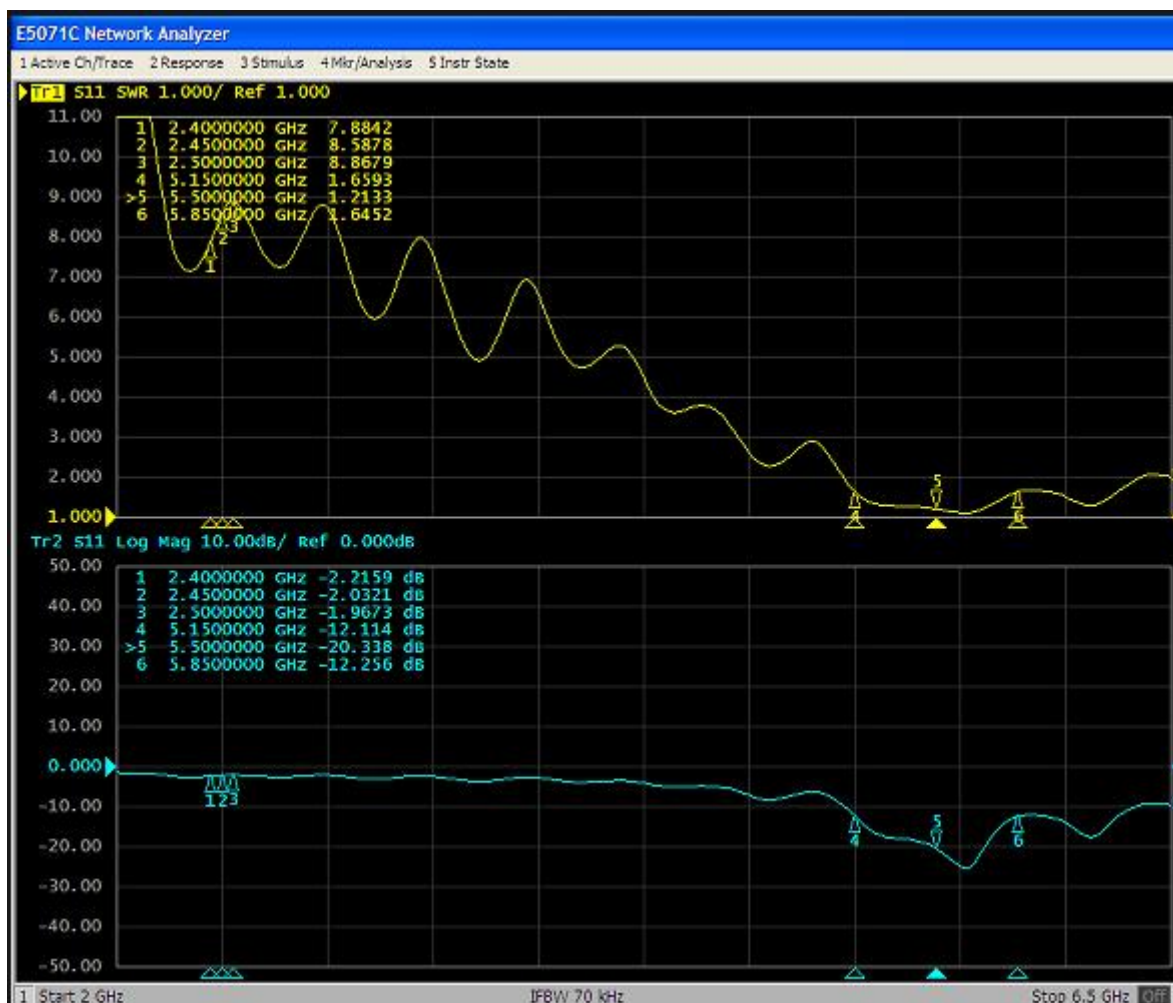
2. Characteristics and Reliability Test

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	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
4	RoHS	With Reference to IEC 62321:2008 with flow chart 参考 IEC 62321 测试流程	Directive RoHS 2015/863/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

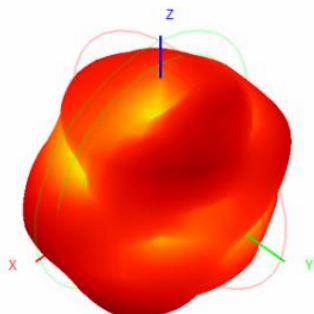
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	-1.02	-1.21	-1.56	-1.17	-1.65	-1.61	-1.01	-1.72	-1.44	0	-1.12
Efficiency (%)	3.35	3.28	3.12	3.45	3.13	4.07	3.69	4.00	4.06	4.46	5.11

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
2.37	2.17	2.59	2.44	2.48	2.21	2.51	2.07	2.80	3.17	3.06	2.82	3.09	2.81	2.55
55.72	56.92	60.90	52.78	59.45	59.57	59.84	56.13	60.09	62.04	61.68	54.74	58.53	57.65	55.11

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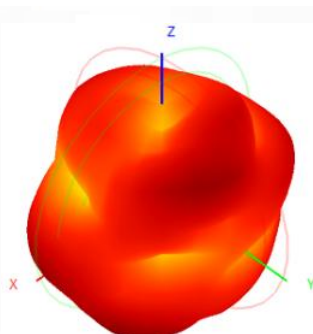
Product Name: Antenna

2400MHz



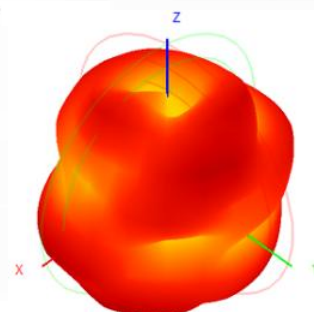
Gain -1.02dBi

2450MHz



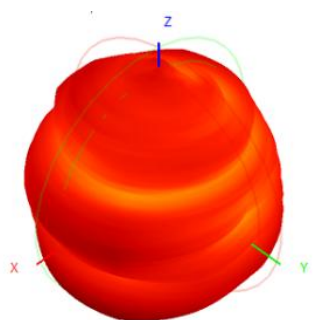
Gain -1.61dBi

2500MHz



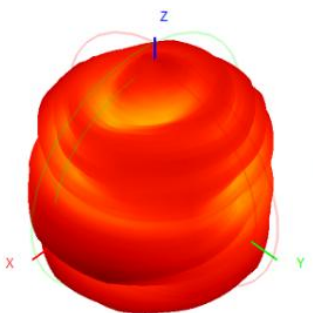
Gain -1.12dBi

5150MHz



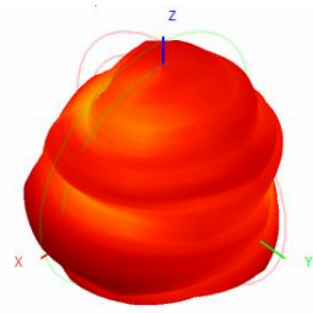
Gain 2.37dBi

5550MHz



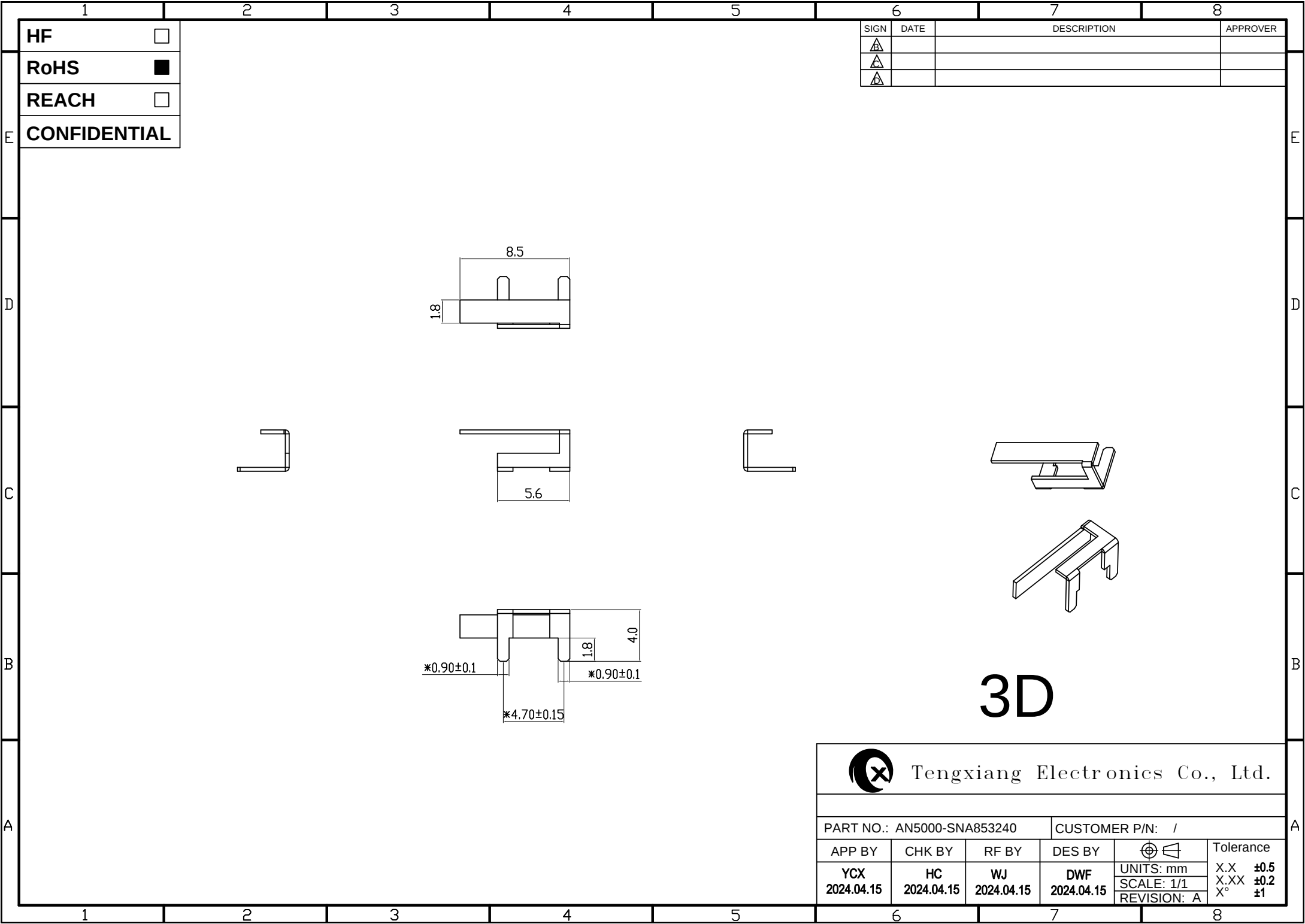
Gain 2.8dBi

5850MHz



Gain 2.55dBi

5. Mechanical Drawing See attached files



HF☐

RoHS☒

REACH☐

CONFIDENTIAL

SIGN	DATE	DESCRIPTION	APPROVER

3D



Tengxiang Electronics Co., Ltd.

PART NO.: AN5000-SNA853240				CUSTOMER P/N: /	
APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX	HC	WJ	DWF		X.X ±0.5
2024.04.15	2024.04.15	2024.04.15	2024.04.15		X.XX ±0.2
				UNITS: mm	X° ±1
				SCALE: 1/1	
				REVISION: A	