

深圳市云顶通讯电子有限公司

Shenzhen Yunting communication electronics Co., LTD

TEL: +86 0755-23073599

FAX: +86 0755-23097189

E-mail:wht0809@163.com

承認書

APPROVAL SHEET

客 户
:

耀星/Yao xing

品 名 规 格

DESCRIPTION:

2.4G 板载天线/2.4g onboard antenna

料 号

PART NO.:

客 户 料 号

CUS PART NO.:

日 期

D A T E:

2024.9.19

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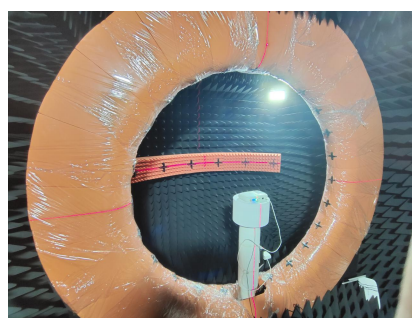
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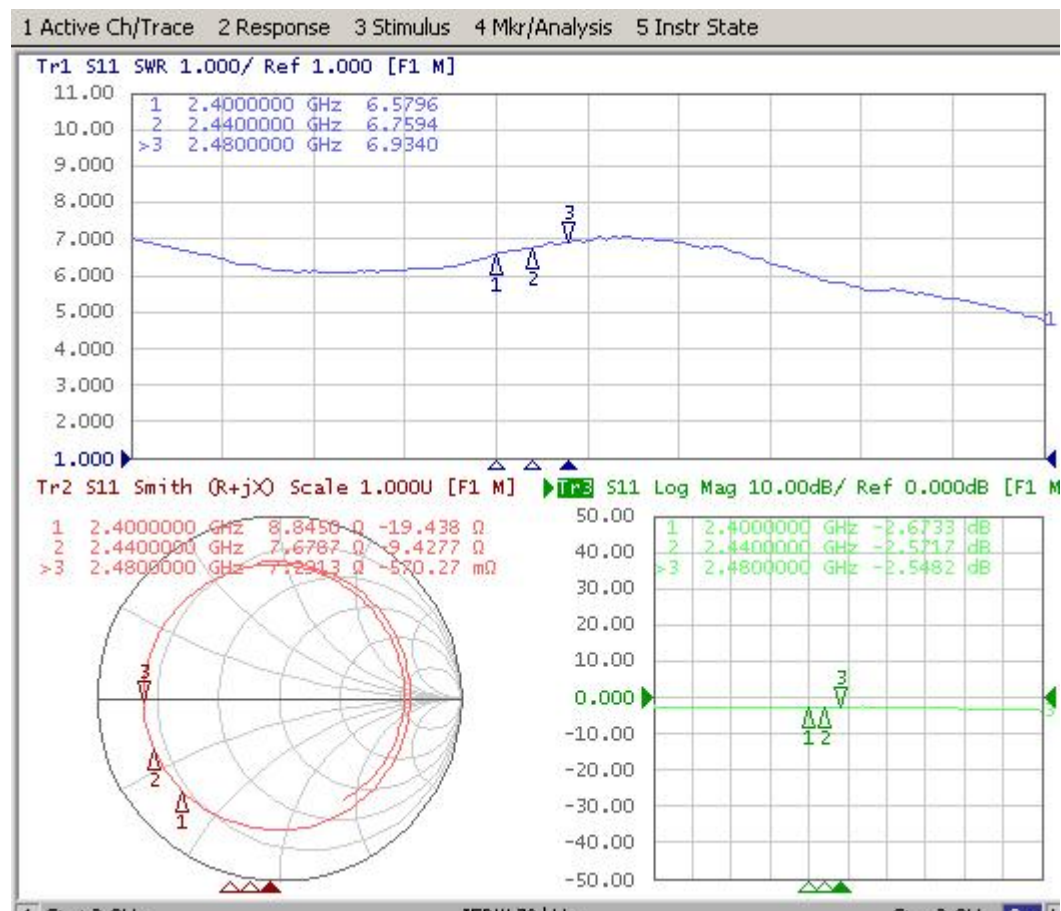
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1. 测试项目与设备/Test items and equipment

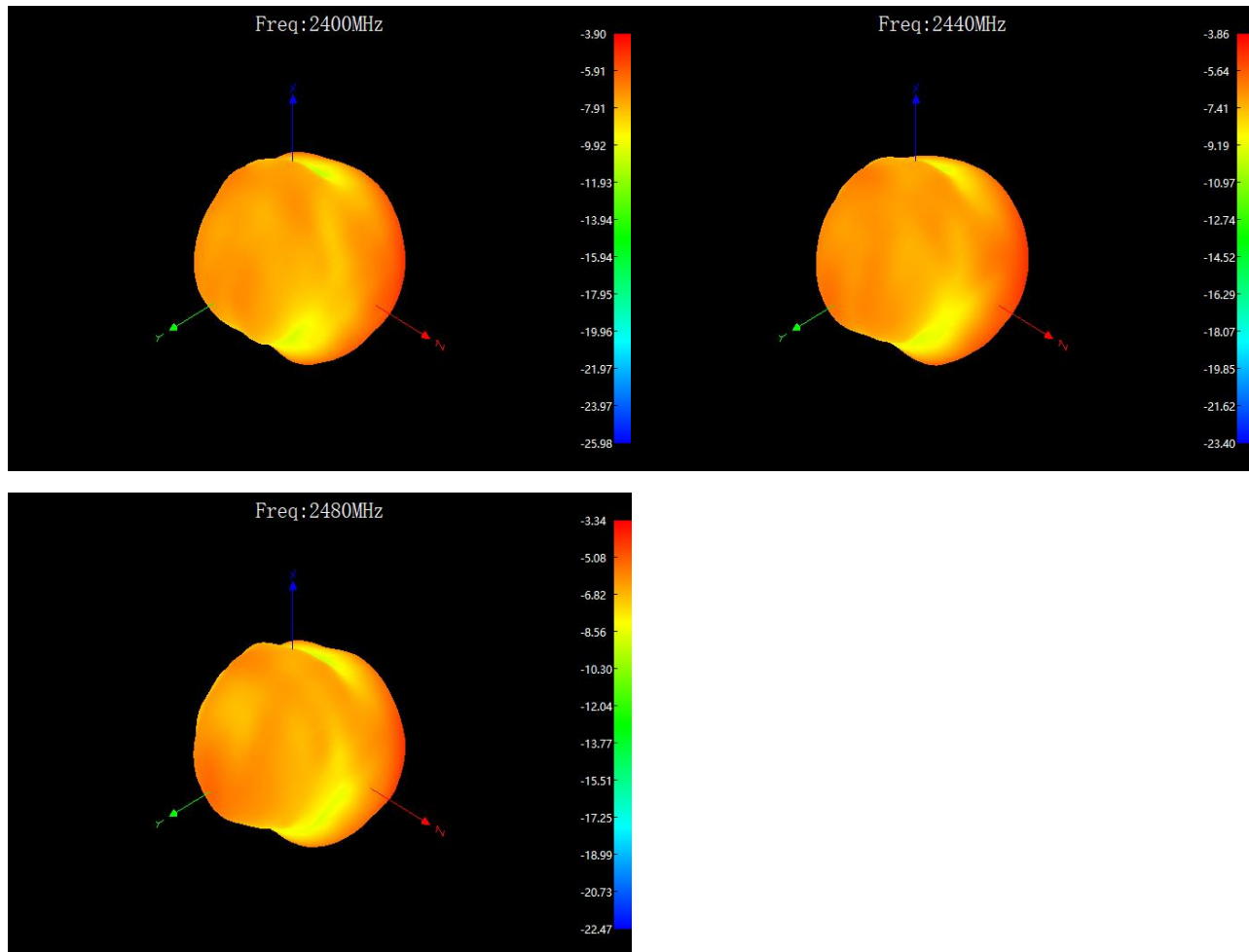
	测试项目/Test item	设备/Equipment
1. S11 参数 (S-parameter)	1. 回波损耗 (Return Loss) 2. 电压驻波比 (VSWR)	网络分析仪/Network analyzer: Agilent E5071B HP 8753D
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS)	1. 暗室/Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber2. 综合测试仪/Comprehensive tester: Agilent 8960 E5515B ×2 StarPoint SP6011 Cmw500
3. 无源测试 (Passive)	1. 天线增益 (Gain) 2. 天线效率 (Efficiency)	1. 暗室/Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber2. 网络分析仪/Network analyzer: Agilent E5071B HP 8753D



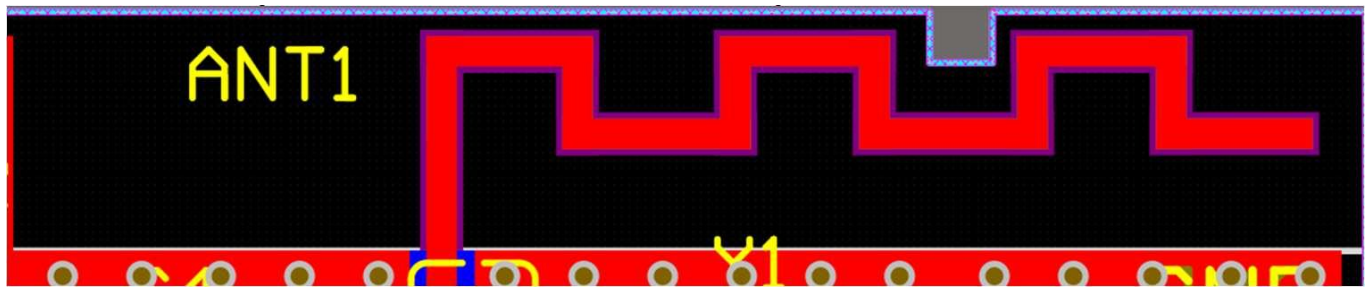
2. VSWR Smith and S11



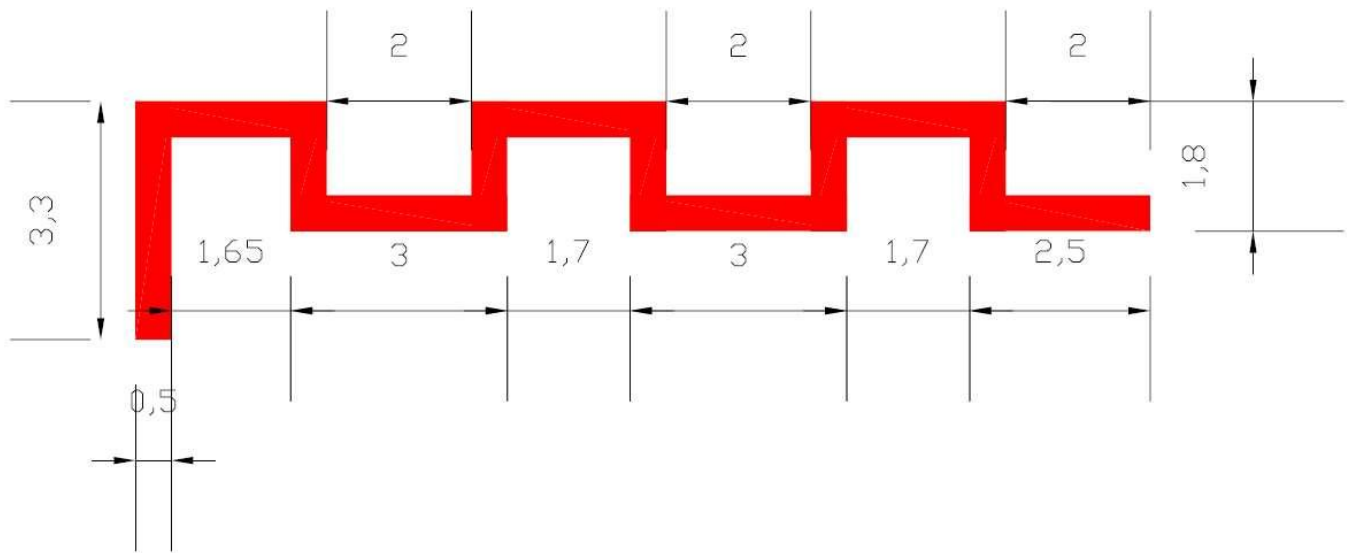
3. 天线增益 3D 图/3D view of antenna gain



4. 天线结构图/Antenna structure diagram:



Unit: mm



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电器技术参数/Technical parameters of electrical apparatus

电 性 能 指 标		Electrical Specifications	
Frequency range	2402~2480MHz	Frequency Range	2402~2480MHz
Voltage standing waveratio	≤ 7.0	VSWR	≤ 7.0
Input impedance	50 Ω	Input Impedance	50 Ω
Gain	-3.86 dBi	Gain	-3.86 dBi
机 械 指 标		Mechanical Specifications	
Operating temperature	-40℃~+85℃	Working Temperature	-40℃~+85℃
Working humidity	20~80%	Working Humidity	20~80%

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环境性能测试 (Environment performance test) :

项目	测试条件	测试结果
储存环境	在没有指定的情况下测试温度、湿度、气压如下: 1. 温度为-30℃~+80℃ 2. 相对湿度为45%-85% 3. 气压为86kpa-106kpa	电气机械性能正常
高低温试验	在70℃与-40℃之间进行5次循环, 然后在正常条件下1-2H, 检查外观质量。	尺寸应满足规定并应满足于机械、电气性能
耐恒定湿热试验	相对湿度95±3%, 试验温度: 40℃. 持续2H作用后, 试品取出后5min之内测定电气性能, 试品在正常条件下1-2H, 检查外观质量	尺寸应满足规定并应满足于机械、电气性能
振动试验	振频范围10-55HZ, 位移幅值: 0.35MM, 加速度幅值: 50.0M/S, 扫频循环次数: 30次	电气机械性能正常
跌落试验	1M高空按照互相垂直的轴方向自由跌落3次	电气机械性能正常

Project	Test condition	Test results
Storage environment	Test temperature, humidity, pressure without stated condition as follwings:1.Temperature: -30 °C ~ +80 °C ;2.Relative humidity: 45%-85%;3,Pressure: 86kpa-106kpa	Electrical and mechanical performance normal
High and low temperature test	Having 5 times cycle between -40℃ to 70℃,Then in common condition 1-2 hours test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Resistance constant hot and humid test	Relative humidity:95±3%,Test temperature: 40℃,last 2 hours ,put it after 5 min test the electrical function .Test products during common condition 1-2 hours ,Then test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Vibration test	Vibrate Frequency:10-55HZ; Distance :0.35mm;Acceleration :50.0m/s;Sweep frequency cycle:30 times	Electrical and mechanical performance normal
Fall test	From 1m height fall down 3 times freely (vertical direction)	Electrical and mechanical performance normal

地址: 深圳市宝安区航空路锦驰中心 3015
Address: 3015 Jinchi Center, Hang Air Road,
Baoan District, Shenzhen