

深圳市云顶通讯电子有限公司
Shenzhen Yunding Communication Electronics Co., LTD.

TEL: +86 0755-23073599

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承認書

APPROVAL SHEET

客户

CUS:

品名规格

XLL5168-2.4G-1.13-L70MM-IPEX一代

DESCRIPTION:

料号

PART NO.:

客户料号

CUS PART NO.:

日期

2024.6.13

DATE:

云顶呈样签章

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	业 务 SALES DEPARTMENT
吴淑仪	刘丽	银帅

客户承认签章

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	采 购 PURCHASING DEPARTMENT

联系电话: 0755 23073599

承认书一式三份, 惠蒙贵司承认签章

Approval in duplicate, please signed by your company.

地址: 深圳市宝安区航空路锦驰中心3015

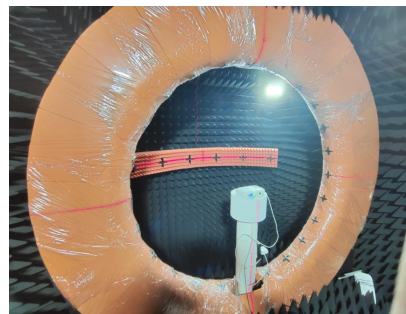
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1. 测试项目与设备 Test Items and Equipment

	测试项目 Test Items	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: AgilentE5071B HP 8753D
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS)	1. 暗室: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. 综合测试仪: 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: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. 网络分析仪: AgilentE5071B HP 8753D



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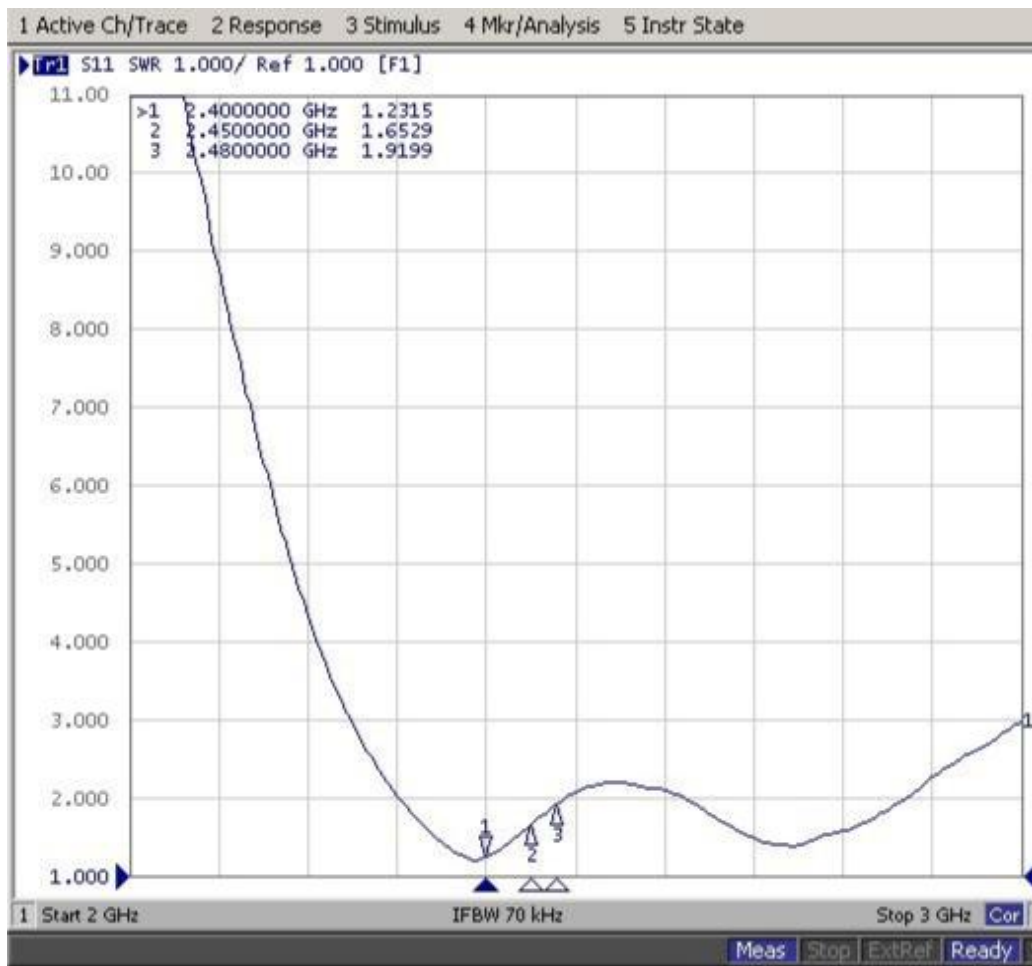
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2. 天线性能 Antenna performance

SWR



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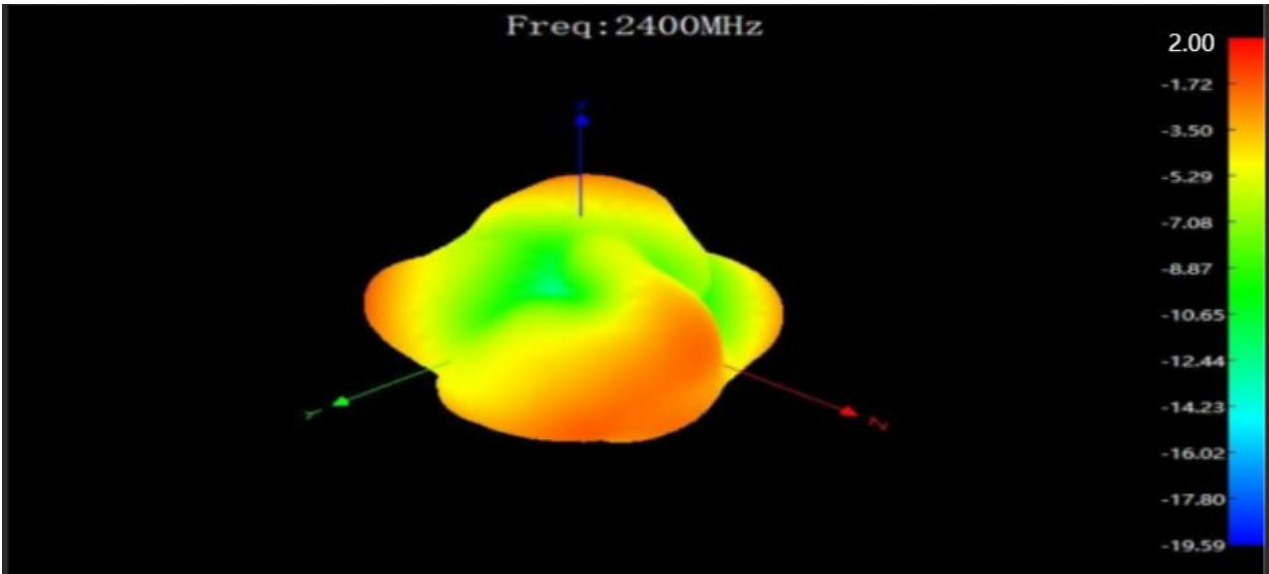
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3. 天线效率与增益 Antenna Efficiency and Gain

Frequency	MaxGain/dBi	Efficiency/%
2400	0.07	29.58
2410	2	29.79
2420	0.13	29.24
2430	0.05	29.79
2440	-0.38	29.99
2450	-0.62	29.79
2460	-0.79	29.85
2470	-0.73	31.55
2480	-0.84	31.41
2490	-0.8	31.84
2500	-0.64	32.96



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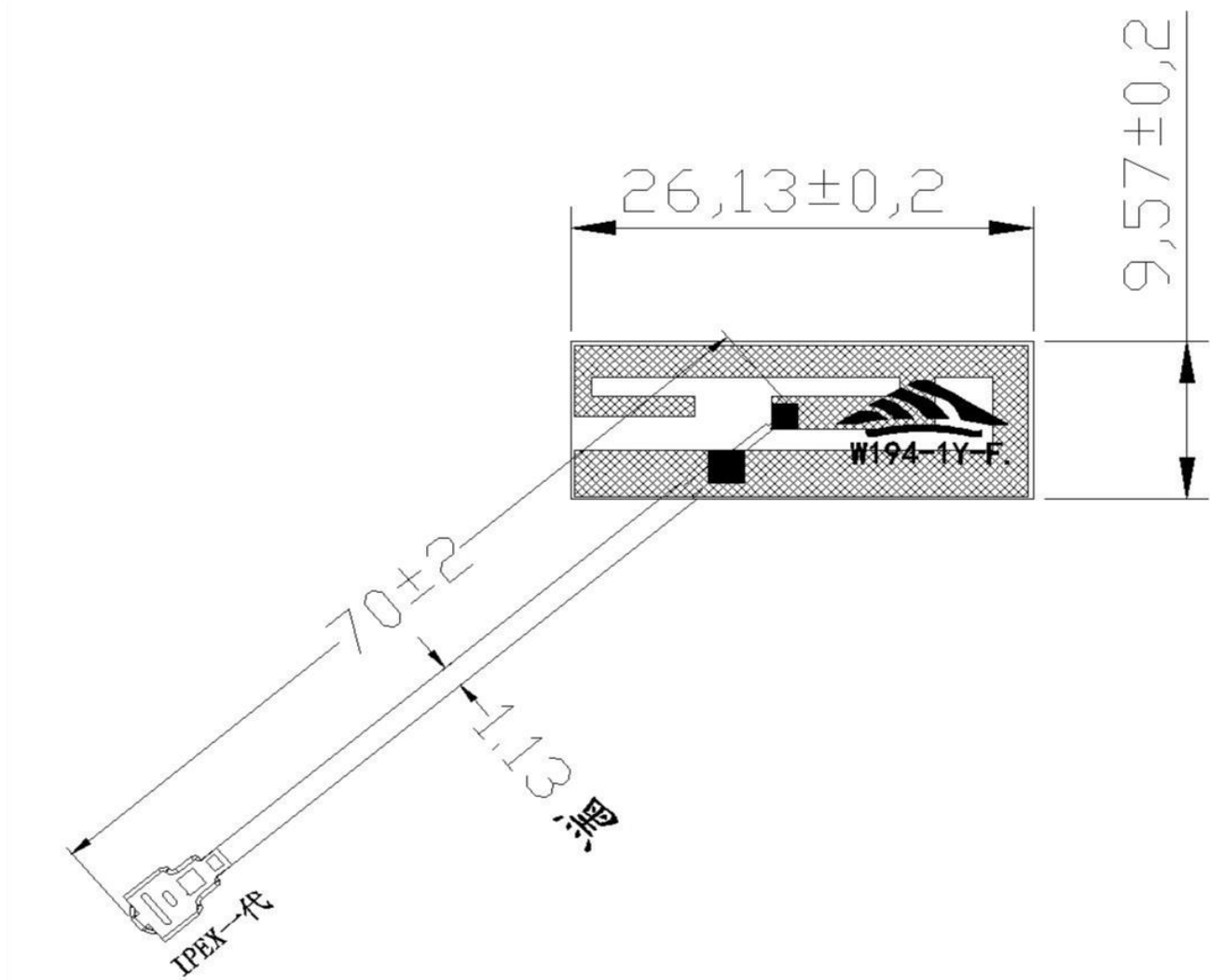
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4. 天线结构图 Antenna structure diagram

SIZE: 26.13*9.57*70MM



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电性能指标		Electrical Specifications	
频率范围	2400~2500MHz	FrequencyRange	2400~2500MHz
电压驻波比	≤2.0	VSWR	≤2.0
输入阻抗	50 Ω	InputImpedance	50 Ω
增益	1DBI	Gain	1DBI
机械指标		Mechanical Specifications	
线材颜色	黑色	Wirecolor	Black
接口形式	IPEX一代	Inputconnector	IPEX1
天线线长	70mm	Cablelength	70mm
工作温度	-40℃~+85℃	WorkingTemperature	-40℃~+85℃
工作湿度	20~80%	WorkingHumidity	20~80%

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环境性能测试 (Environmentperformancetest) :

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	Testcondition	Testresults
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	Electricaland mechanical performancenormal
Highandlow temperaturetest	Having 5 times cycle between -40°Cto 70°C,Then in common condition1-2hourstestexteriorquality.	Measurement satisfiedwith electricaland mechanical performancenormal.
Resistance constanthotand humidtest	Relativehumidity:95±3%,Testtemperature:40°C,last2 hours ,put it after 5 min test the electrical function .Test productsduringcommoncondition1-2hours,Thentest exteriorquality.	Measurement satisfiedwith electricaland mechanical performancenormal.
Vibrationtest	VibrateFrequency:10-55HZ; Distance:0.35mm;Acceleration:50.0m/s;Sweepfrequency cycle:30times	Electricaland mechanical performancenormal
Falltest	From 1m height fall down 3 times freely (vertical direction)	Electricaland mechanical performancenormal

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