

Manufacturer: 东莞市小帅电子科技有限公司
Dongguan Xiaoshuai Electronic Technology Co., Ltd

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产品承认书

SPECIFICATION FOR APPROVED

客户

CUSTOMER: _____

产品名称

PRODUCTS: _____ 双频一出二内置天线/ Dual band antenna

客户料号

PART NO: _____

产品型号

Spec.: _____ WF3710-113B-60

日期

Data: _____ 2023.12.16

Alen

供应商

SUPPLIER

拟制 PREPARED BY	审核 CHECKED BY	批准 APPROVED BY
杨轩	汪大海	Alen

客户

CUSTOMER

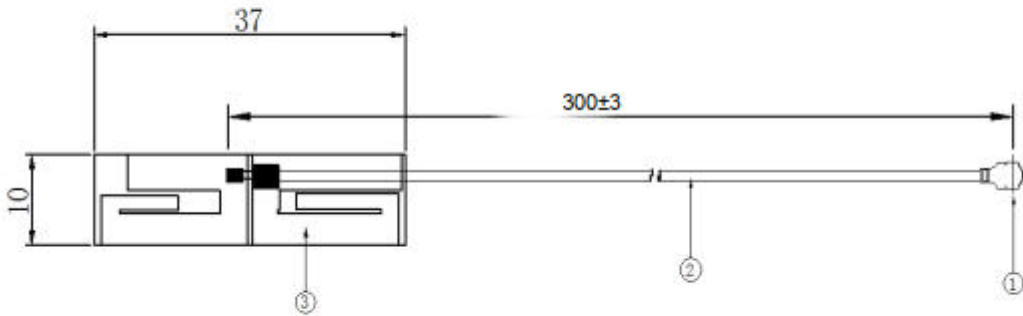
承认 ACCEPTED BY	审核 CHECKED BY	批准 APPROVED BY

备注: 承认盖章后请回复一份承认书(或复印件)给我司, 其余由贵公司存档

Note: After acknowledging and stamping, please reply with an acknowledgement letter (or copy) to our company, and the rest will be archived by your company

1. 项目信息Project Information

1.1. 外观尺寸Appearance and Dimensions

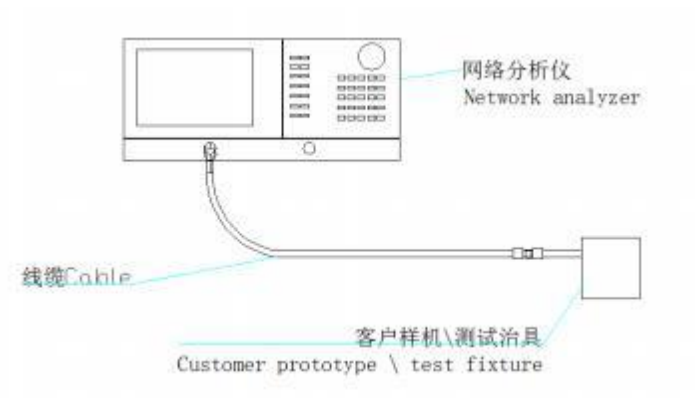


2. 电气性能 **Electrical Characteristics**

2.1. 测试环境条件 **Test Environment Conditions**

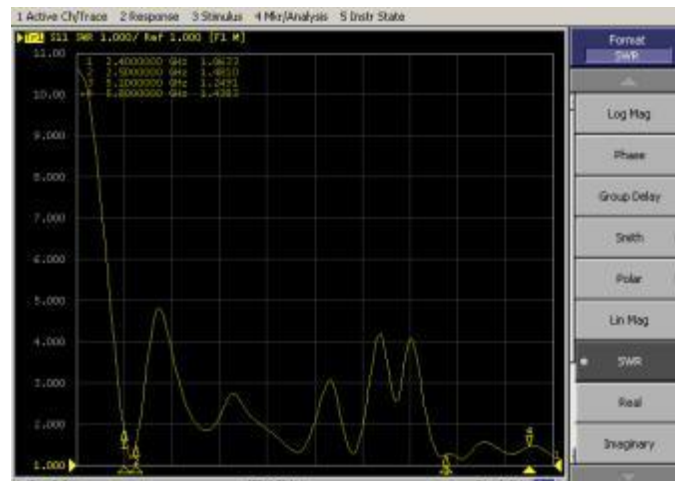
温度Temperature	Ordinary Temperature (5 to 35℃)
湿度Humidity	Ordinary Humidity (25 to 85% RH)

2.2. 测试方法 **Measurement method**

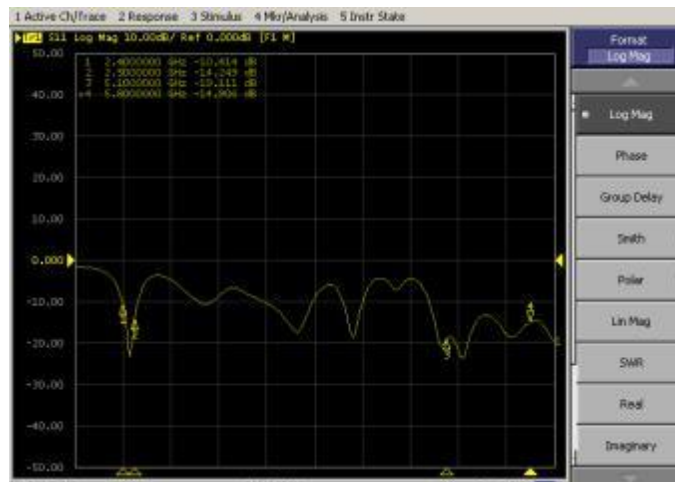


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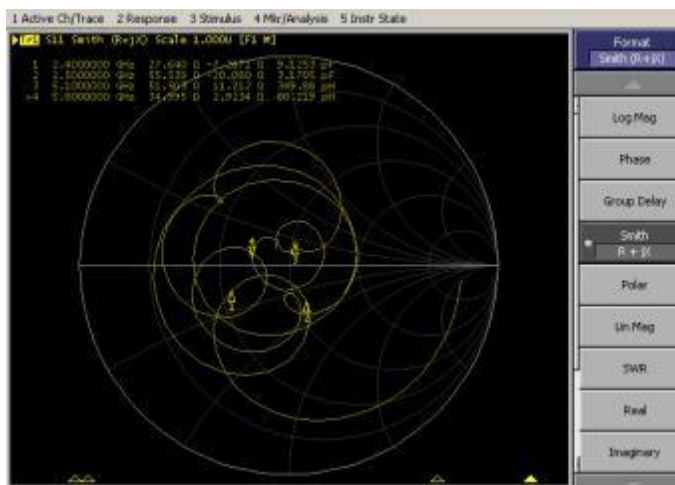
2.2.1. 电压驻波比VSWR



2.2.2. 回波损耗Log Mag



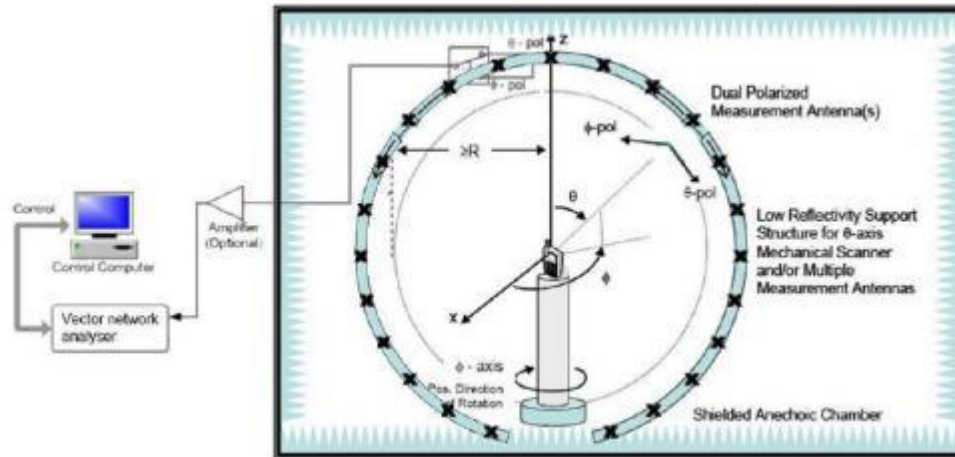
2.2.3. 阻抗Impedance



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2.3. 效率及增益 **Efficiency** and Gain

2.3.1. 测试系统 Test system



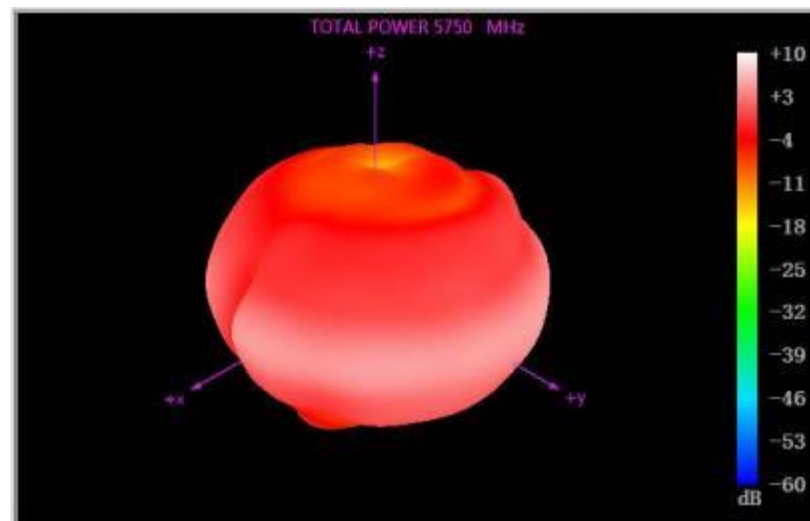
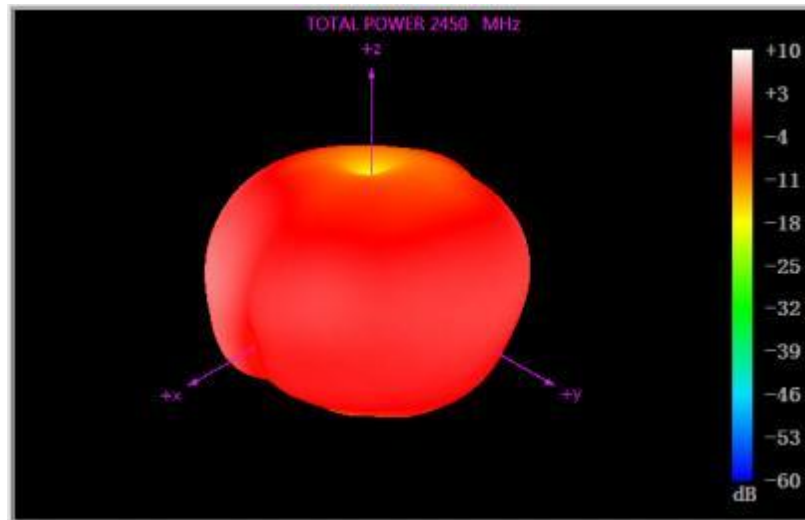
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2.3.2. 无源数据No-source test data

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400 MHz	55.97	2.78
2410 MHz	55.12	2.83
2420 MHz	54.98	2.89
2430 MHz	54.54	2.93
2440 MHz	53.31	2.94
2450 MHz	55.66	3.05
2460 MHz	57.98	3.1
2470 MHz	57.9	3.15
2480 MHz	57.66	3.06
2490 MHz	54.57	2.84
2500 MHz	51.21	3.43
5150 MHz	56.34	3.58
5200 MHz	59.66	3.26
5250 MHz	60.21	2.96
5300 MHz	63.72	2.91
5350 MHz	62.79	2.98
5400 MHz	62.21	3.45
5450 MHz	62.82	3.04
5500 MHz	60.59	3.34
5550 MHz	62.93	3.27
5600 MHz	57.19	2.88
5650 MHz	62.42	3.53
5700 MHz	61.22	3.54
5750 MHz	61.61	3.59
5800 MHz	59.9	3.14
5850 MHz	62.44	3.38

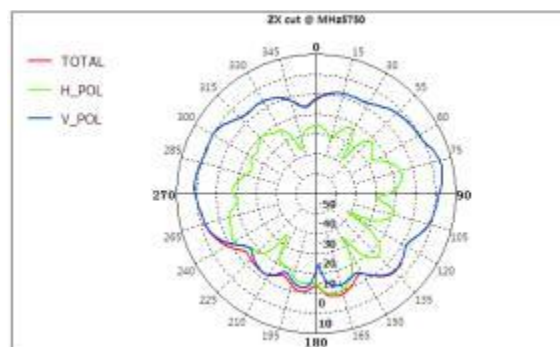
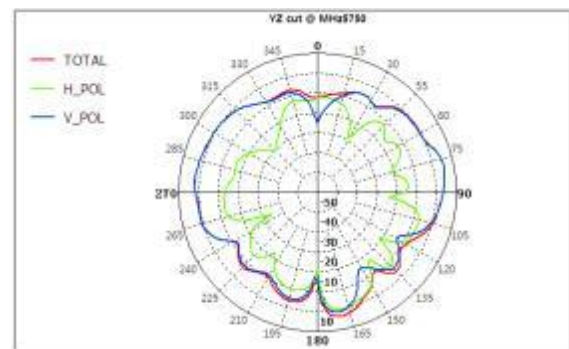
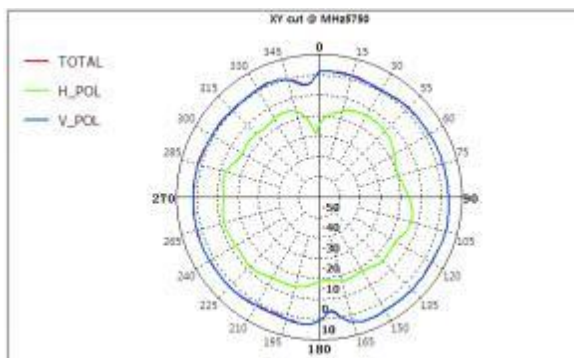
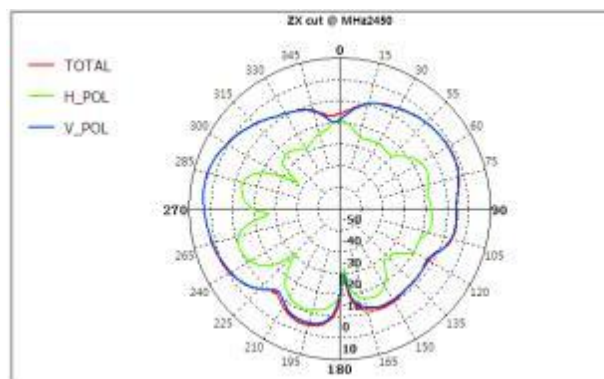
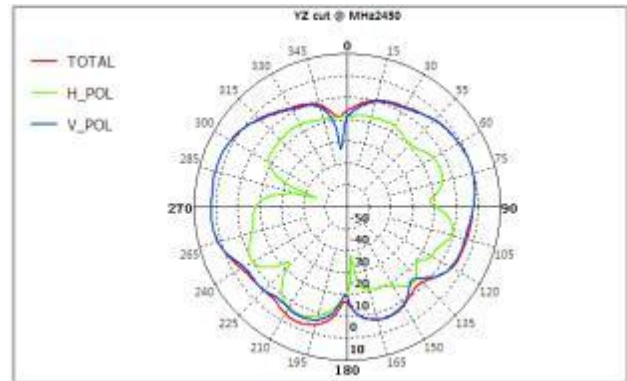
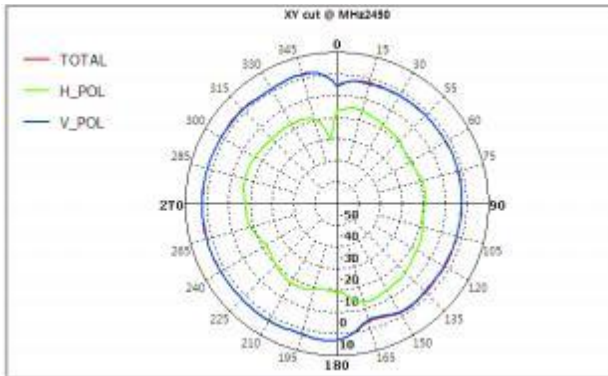
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2.3.3. 3D Radiation Drawing



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2.3.4. directional drawing of horizontal plane



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3. 备注Notes

- 1、安装时注意不能离金属部分太近， 以避免影响天线性能。
1. Be careful not to be too close to the metal part during installation to avoid affecting antenna performance.
- 2、此款天线只适用此机型， 天线的位置不可以随意改动， 若用于其它机器上导致效果变差， 与我司无 关。
2. This antenna is only suitable for this model, and the position of the antenna cannot be changed arbitrarily. If it is used on other machines and results in poor performance, it is not related to our company.

4. 可靠性测试Reliability test

项目 project	试验方法及条件 Test methods and conditions	规格及要求 Specifications and requirements	实验结果 experimental result
存储环境 storage environment	在没有指定的情况下测试温度、湿度、气压如下： Test the temperature, humidity, and air pressure without specifying them as follows: 1、 temperature $-30^{\circ}\text{C}\sim+80^{\circ}\text{C}$ 2、 relative humidity 45%-85% 3、 pressure 86Kpa-106Kpa	外观无明显变化各电性参数符合规格误差 There is no significant change in appearance, and all electrical parameters meet the specification error	OK
盐雾测试 Salt spray test	brine concentration $50 \pm 10\text{g/l}$ (About 5%); PH6.5-7.2; test temperature $35 \pm 1^{\circ}\text{C}$; Corrosion Time 16H.	判定方法:试验后用 20 倍 放大镜观察 ;无氧化之不良;即判定合格 Determination method: Observe with a 20x magnifying glass after the experiment; No oxidation defects; It is determined to be qualified	OK
跌落测试 Drop Test	从 1M 处跌落在木板上 Falling from 1M onto a wooden board	外观无明显变化各电性参数符合规格误差 There is no significant change in appearance, and all electrical parameters meet the specification error	OK
拉拔力测试 Pulling force test	用推拉力计测试仪器测试其承受力度: $\geq 12\text{N}$ Test the bearing force using a push-pull force tester: $\geq 12\text{N}$		OK
恒温恒湿测试 Constant temperature and humidity test	Temperature and humidity: $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$, 90-95% RH Duration: 4H Recovery time: 1 to 2H		OK
高低温测试 High and low temperature testing	在 70°C 与 40°C 之间进行 5 次循环 , 然后在正常条件下 1-2H Perform 5 cycles between 70°C and 40°C , and then under normal conditions for 1-2H		OK
火花试验 spark test	0.5KV/0.15 sec.		OK