

东莞市小帅电子科技有限公司

specification

客户

CUSTOMER: _____

产品名称

PRODUCTS: _____ 2.4G /5.8GHz 双频天线

客户料号

PART NO: _____

产品型号

Spec. : _____ 2HG5

日期

Data: _____ 2022. 05. 29

供应商 SUPPLIER		
拟制 PREPARED BY	审核 CHECKED BY	批准 APPROVED BY
汪大海	王笑	Alen

客户 CUSTOMER		
承认 ACCEPTED BY	审核 CHECKED BY	批准 APPROVED BY

天线制造商：东莞市小帅电子科技有限公司

Antenna manufacturer: Dongguan Xiaoshuai Electronic Technology Co. , Ltd.

地址： 东莞市黄江镇长龙社区常兴智谷产业园5栋3楼

Address: 3rd floor, building 5, Changxing Zhigu Industrial Park, Changlong community, Huangjiang, Guangdong Town, Dongguan

天线尺寸 ：直径10MM*长度195MM。

ANTENNA SPECIFICATION

1实物照片 Physical photos

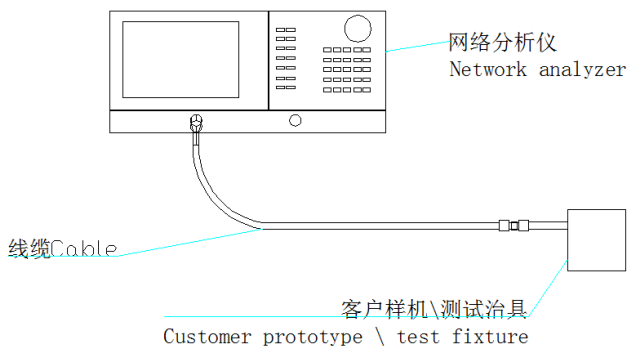


2. 电气性能 Electrical Characteristics

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



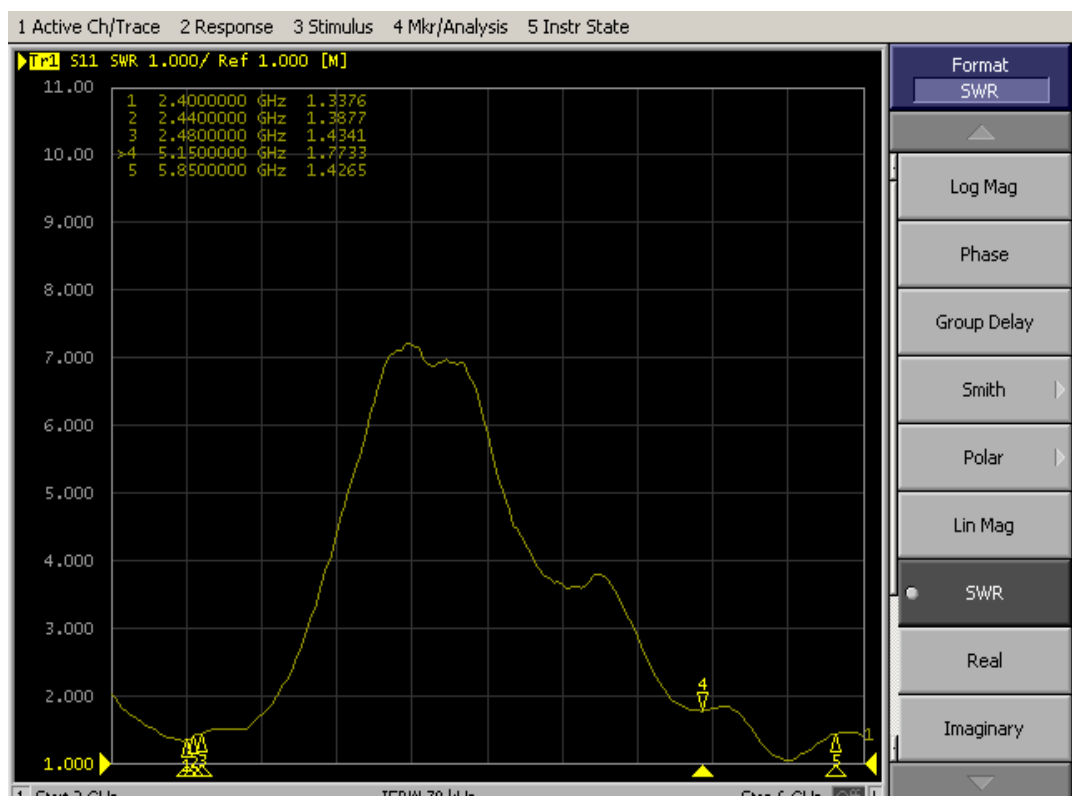
电性能指标 Electrical Specifications	
频率范围 Frequency Range (MHz)	2400-2500MHZ/5150-5800MHZ
频带宽度 Bandwidth (MHz)	20
输入阻抗 Input Impedence (Ω)	50
电压驻波比 V.S.W.R	≤ 1.5
增益 Gain (dBi)	5
极化形式 Polarization Type	垂直 Vertical



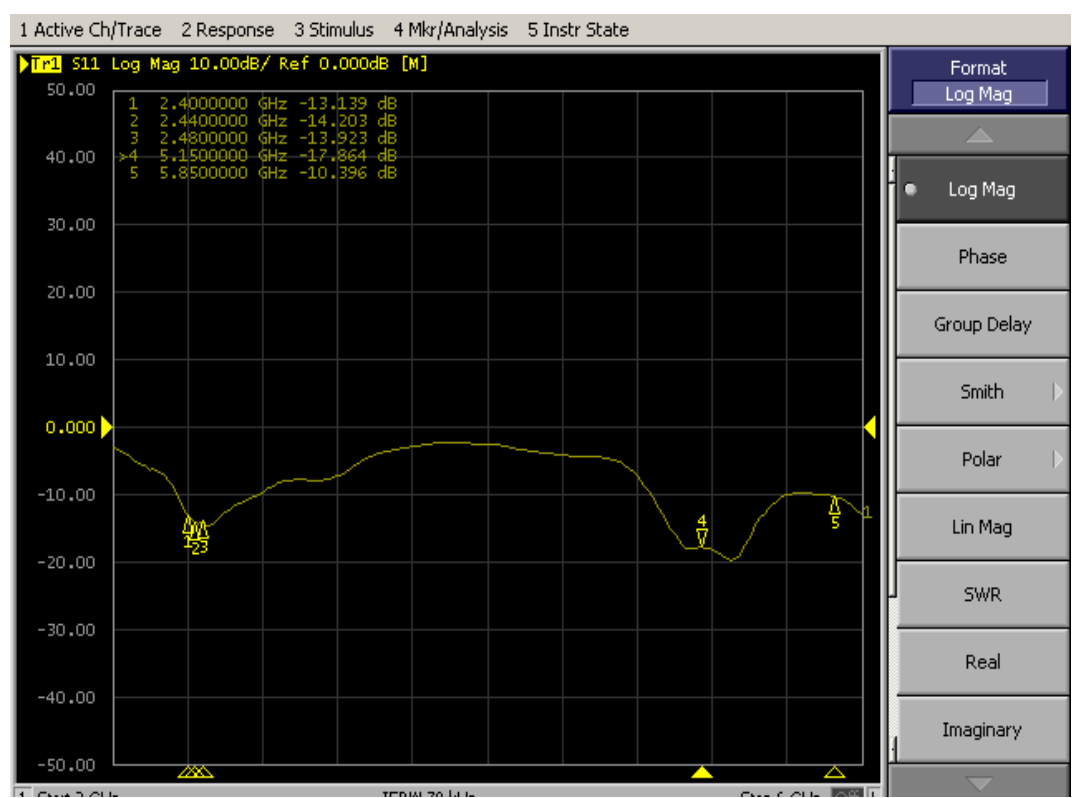
雷电保护 Lightning Protection	直流接地
功率容量 Power Capacity (w)	50
机械指标 Mechanical Specifications	
天线长度 Antenna Length (mm)	195mm $\pm$ 3mm
辐射体 Radiator	铜 Cuprum
连接器型号 Connect Type	SMA 内针/内孔
工作温度 Working Temp($^{\circ}$ C)	-40-60
储藏温度 Storage Temperature($^{\circ}$ C)	-20-60
外壳颜色 Radome Color	黑色 Black
重量 Weight (g)	21.5

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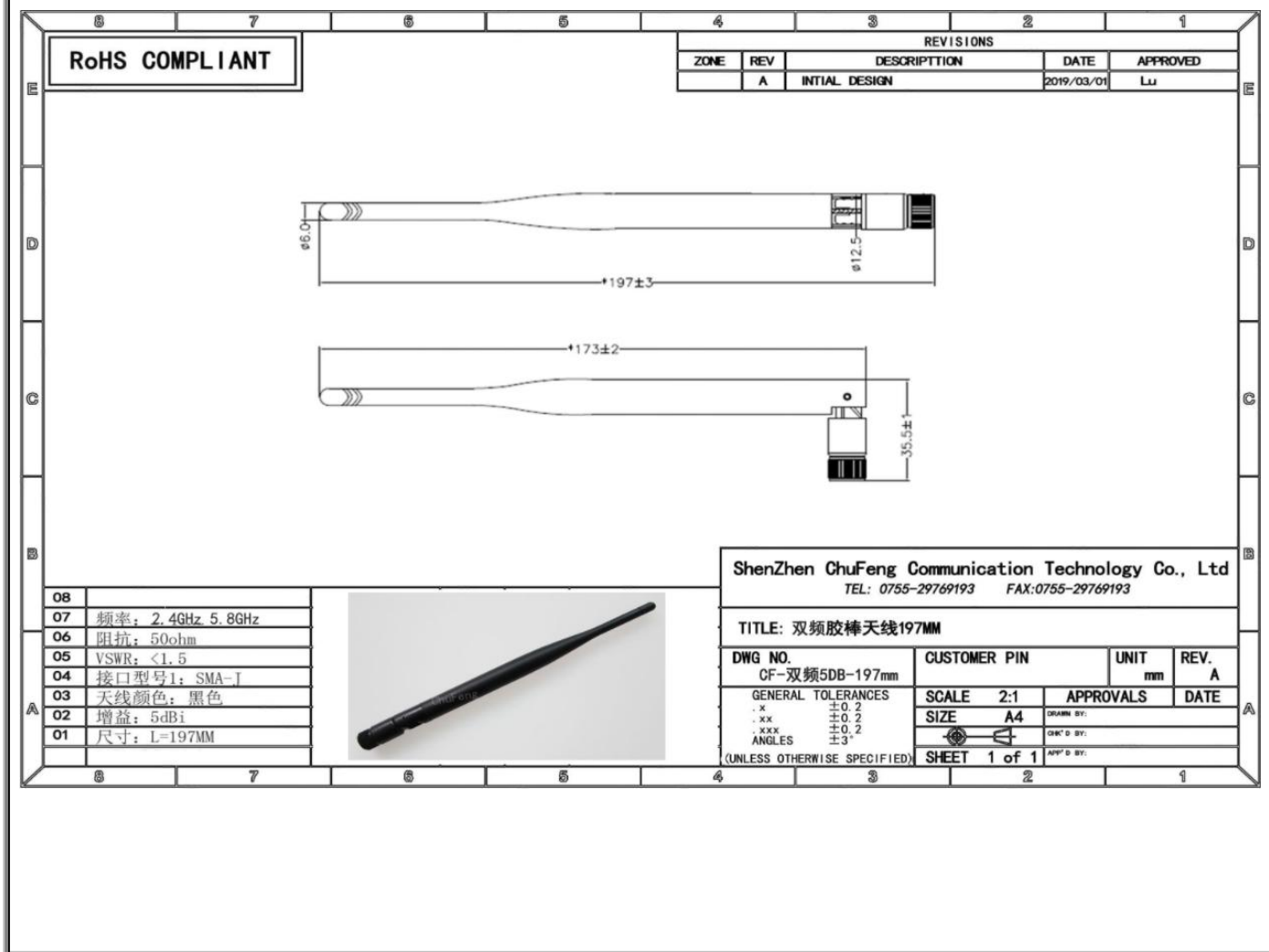
2.2.1. 电压驻波比 VSWR



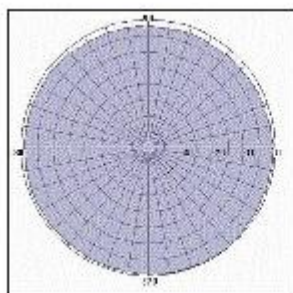
2.2.2. 回波损耗 Log Mag



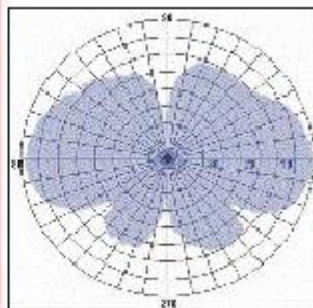
单位: mm 比例: 1:1



水平面方向图



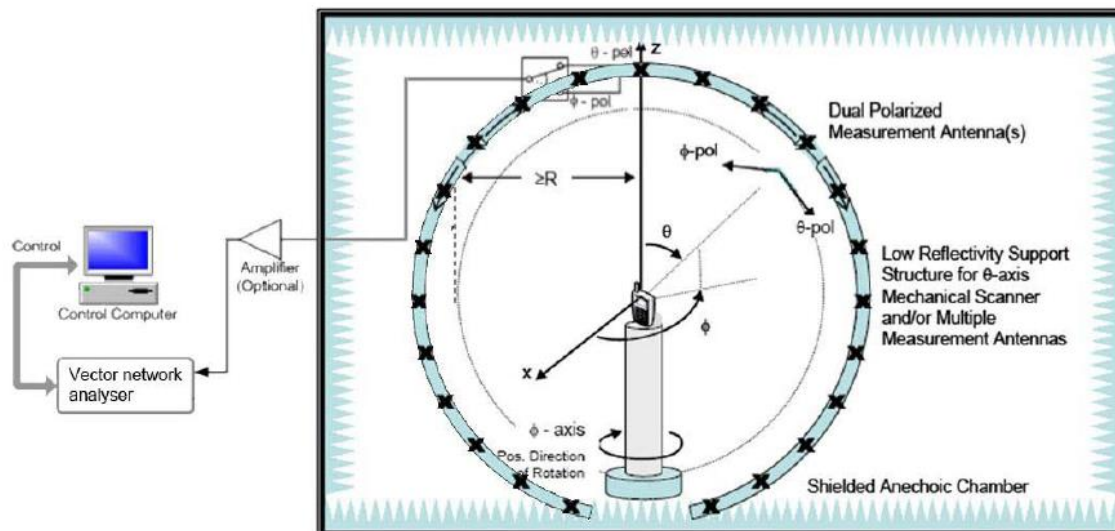
垂直面方向图



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2.3. 效率及增益 Efficiency and Gain

2.3.1. 测试系统 Test system



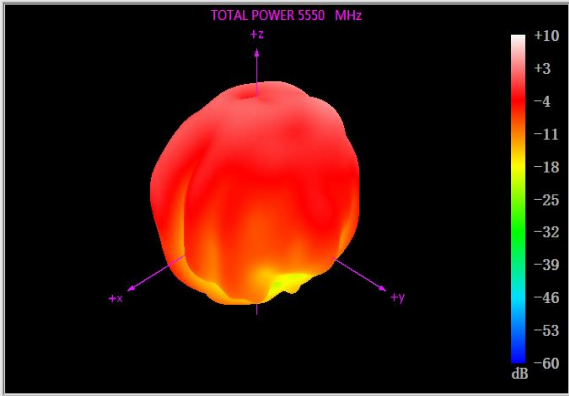
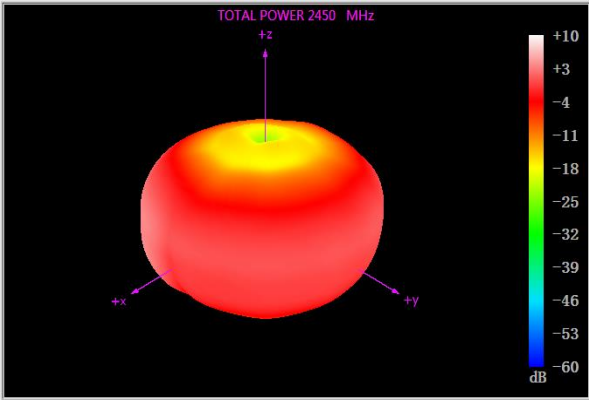
2.3.2. 无源数据 No-source test data

Frequency (MHz)		Efficiency (%)	Gain (dBi)
2400	MHz	73.3	4.6
2410	MHz	76.98	4.99
2420	MHz	80.08	5.3
2430	MHz	80.83	5.42
2440	MHz	77.86	5.22
2450	MHz	71.74	4.65
2460	MHz	75.88	4.6
2470	MHz	73.21	4.27
2480	MHz	65.98	3.73
2490	MHz	70.06	4.1
2500	MHz	69.83	4.09

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Frequency (MHz)		Efficiency (%)	Gain (dBi)
5150	MHz	51.51	3.51
5200	MHz	48.9	4.6
5250	MHz	59.58	4.86
5300	MHz	60.11	5.14
5350	MHz	49.86	5.71
5400	MHz	52.51	5.12
5450	MHz	48.99	5.02
5500	MHz	43.47	5.43
5550	MHz	51.41	4.79
5600	MHz	49.95	4.27
5650	MHz	49.27	4.07
5700	MHz	47.79	3.84
5750	MHz	43.94	5.17
5800	MHz	43.87	5.08
5850	MHz	42.15	5.01

2.3.3. 3D Radiation Drawing



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2.3.4. directional drawing of horizontal plane

