

东莞市亿瑞电子科技有限公司

Dongguan Yirui Electronic Technology Co., Ltd

承 认 书

SPECIFICATION FOR APPROVAL

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: 2.4G PCB board with built-in antenna L=40mm
+terminal (1.13 black wire) BS1C50P3D54A

客 户 料 号

CUSTOMER P/N: ETGH230U000A2-YRD

亿 瑞 料 号

YR P/N: BS1C50P3D54A REV: A

| | MANUFACTURER SIGNATURE | CUSTOMER SIGNATURE |
|--------------|---|-----------------------|
| CHECKED BY: |  | |
| APPROVED BY: | | |
| DATE: | | 2022/7/07 |

地址: 东莞市塘厦镇田心社区丰达工业区丰达路7栋13号二楼

Address: 2nd Floor, No. 13, Building 7, Fengda Road, Fengda Industrial Zone, Tianxin Community, Tangxia Town, Dongguan City

电话: 0769-82016588

Phone: 0769-82016588

传真: 0769-82011600

Fax: 0769-82011600

东莞市亿瑞电子科技有限公司

Dongguan Yirui Electronic Technology Co., Ltd

Contents

| <i>Item</i> | <i>Description</i> |
|-------------|---------------------------------|
| 1.----- | 规格表 Specification table |
| 2.----- | 成品图 Finished product drawing |
| 3.----- | 测试报告 Test report |

地址：东莞市塘厦镇田心社区丰达工业区丰达路7栋13号二楼

Address: 2nd Floor, No. 13, Building 7, Fengda Road, Fengda Industrial Zone, Tianxin Community, Tangxia Town, Dongguan City

电话：0769-82016588

Phone: 0769-82016588

传真：0769-82011600

Fax: 0769-82011600

东莞市亿瑞电子科技有限公司

Dongguan Yirui Electronic Technology Co., Ltd

1规格表Specification table:

产品主要技术参数

Main technical parameters of the product

| 主要技术指标 | | Main technical specifications | |
|------------------|-----------------------------------|-------------------------------|-----------------------------------|
| 频率范围 (MHZ) | 2400~2500 | Frequency Range (MHZ) | 2400~2500 |
| 特性阻抗(Ω) | 50 \pm 10 | Impedance(Ω) | 50 \pm 10 |
| 峰值增益(dBi) | 2.84 | Peak Gain(dBi) | 2.84 |
| 输出电压 驻波比 | \leq 1.92 | VSWR | \leq 1.92 |
| 最大功率 | 1W | Admitted Power | 1W |
| 极化方式 | 线极化 | Polarization | Line,Vertical |
| 连接方式 | 同轴线+端子 | Connector Type | RF Cable+terminal |
| 物理性能 | | Physical Properties | |
| 天线本体材料 | PCB | Antenna Base | PCB |
| 工作温度 | -50 $^{\circ}$ C~+80 $^{\circ}$ C | Operating Temp | -50 $^{\circ}$ C~+80 $^{\circ}$ C |
| 保存温度 | -50 $^{\circ}$ C~+80 $^{\circ}$ C | Storage Temp | -50 $^{\circ}$ C~+80 $^{\circ}$ C |

地址：东莞市塘厦镇田心社区丰达工业区丰达路7栋13号二楼

Address: 2nd Floor, No. 13, Building 7, Fengda Road, Fengda Industrial Zone, Tianxin Community, Tangxia Town, Dongguan City

电话：0769-82016588

Phone: 0769-82016588

传真：0769-82011600

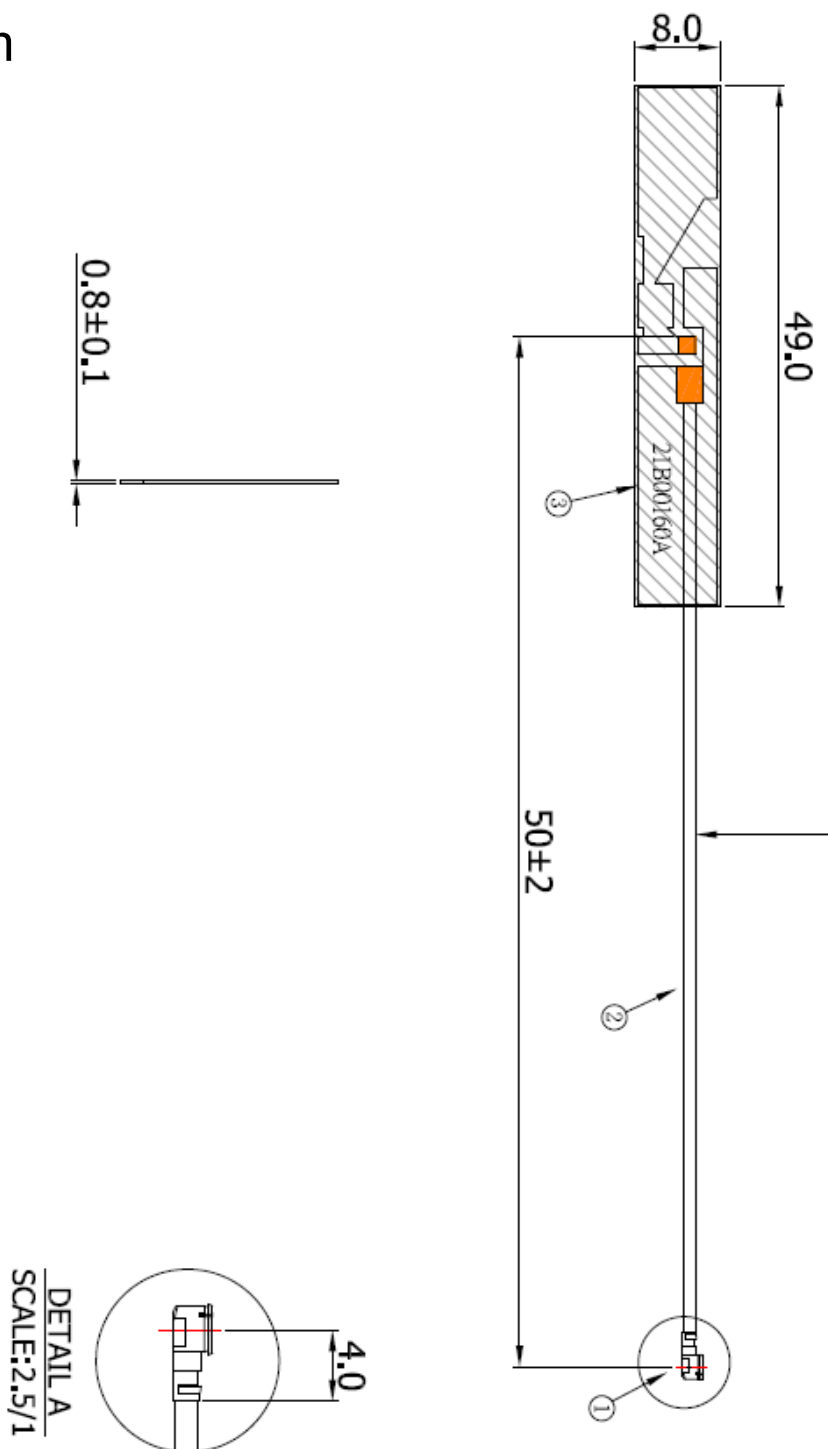
Fax: 0769-82011600

东莞市亿瑞电子科技有限公司

Dongguan Yirui Electronic Technology Co., Ltd

2. 成品图 Finished product drawing:

unit: mm



地址：东莞市塘厦镇田心社区丰达工业区丰达路7栋13号二楼

Address: 2nd Floor, No. 13, Building 7, Fengda Road, Fengda Industrial Zone, Tianxin Community, Tangxia Town, Dongguan City

电话：0769-82016588

Phone: 0769-82016588

传真：0769-82011600

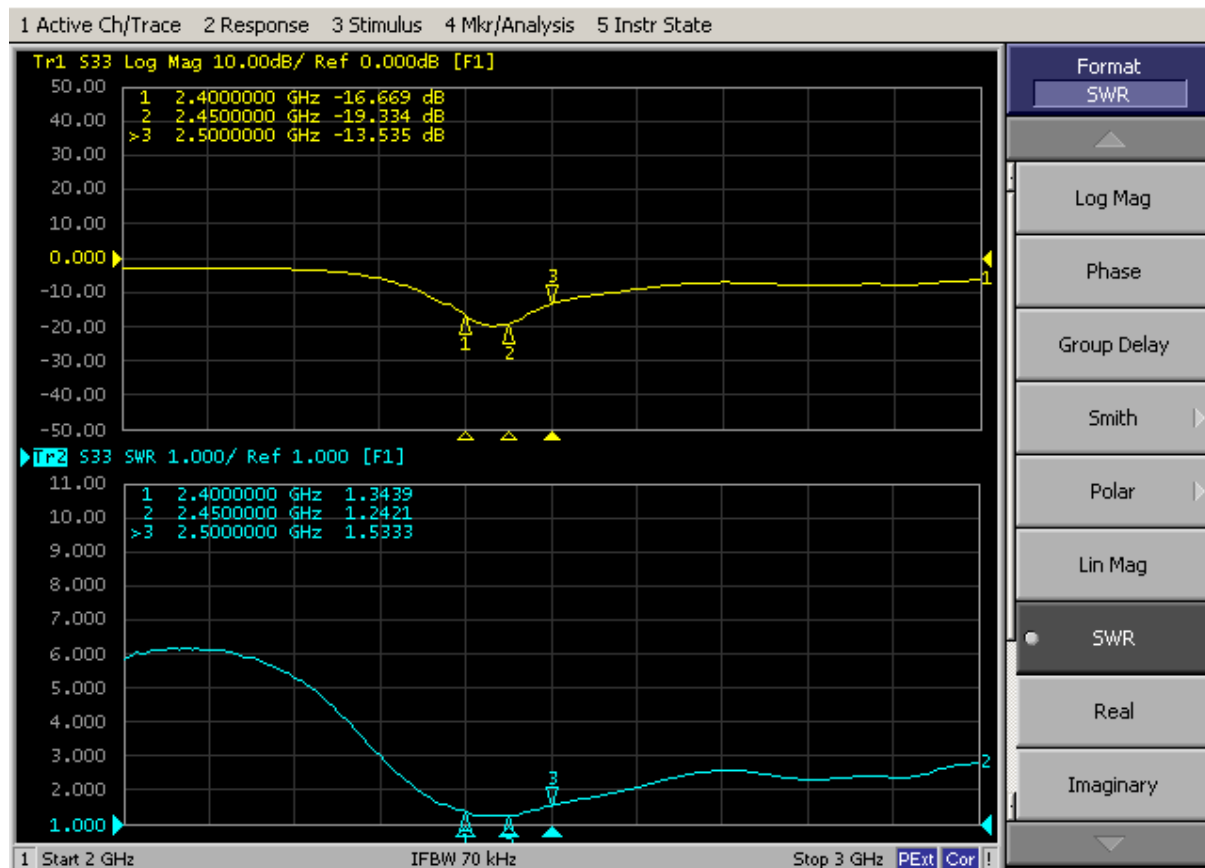
Fax: 0769-82011600

东莞市亿瑞电子科技有限公司

Dongguan Yirui Electronic Technology Co., Ltd

3. 测试报告 Test report

3.1: 网络分析仪测试报告 Network analyzer test report



3.2: 暗室 Darkroom 2D、3D Radiation Pattern (整机数据 Whole machine data)

3.2.1 效率及增益 Efficiency and gain

| Frequency (MHz) | Efficiency (%) | Peak Gain / dB |
|-----------------|----------------|----------------|
| 2400 | 65.34 | 2.69 |
| 2450 | 66.27 | 2.76 |
| 2500 | 66.71 | 2.84 |

地址: 东莞市塘厦镇田心社区丰达工业区丰达路7栋13号二楼

Address: 2nd Floor, No. 13, Building 7, Fengda Road, Fengda Industrial Zone, Tianxin Community, Tangxia Town, Dongguan City

电话: 0769-82016588

Phone: 0769-82016588

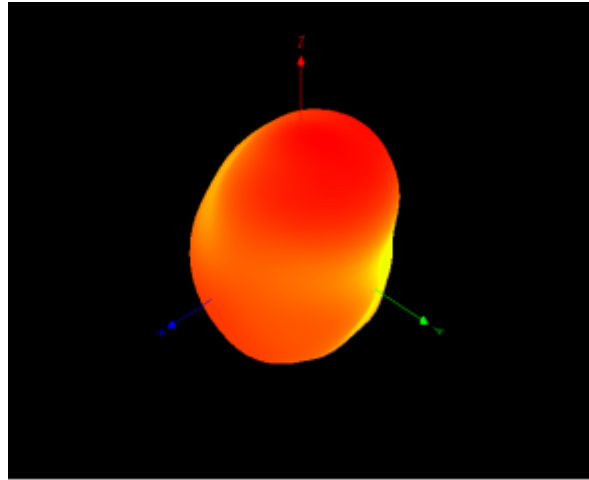
传真: 0769-82011600

Fax: 0769-82011600

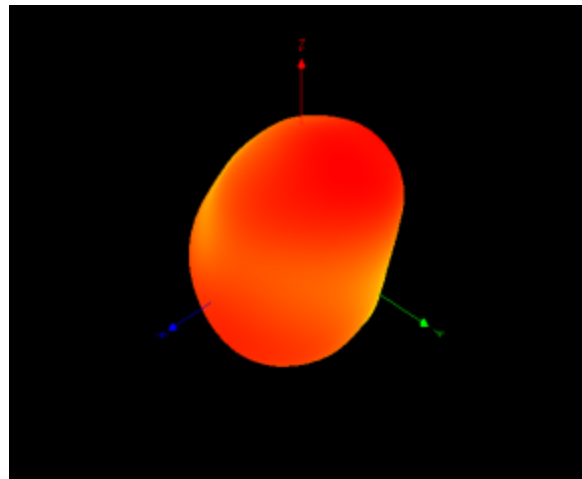
东莞市亿瑞电子科技有限公司

Dongguan Yirui Electronic Technology Co., Ltd

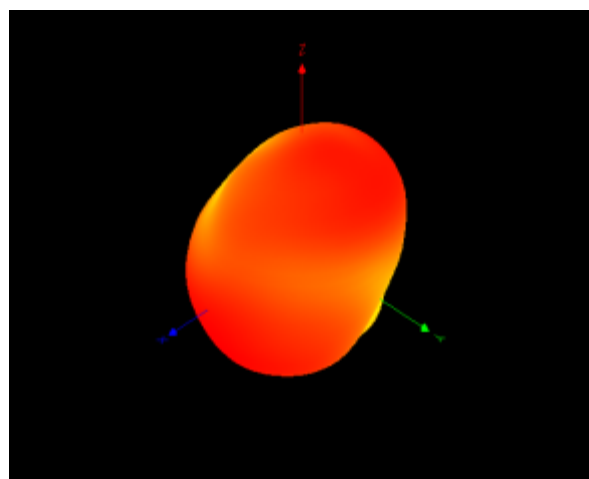
3.2.2 2D/3D 场型图Field plot



2400MHz



2450MHz



2500MHz

地址：东莞市塘厦镇田心社区丰达工业区丰达路7栋13号二楼

Address: 2nd Floor, No. 13, Building 7, Fengda Road, Fengda Industrial Zone, Tianxin Community, Tangxia Town, Dongguan City

电话：0769-82016588

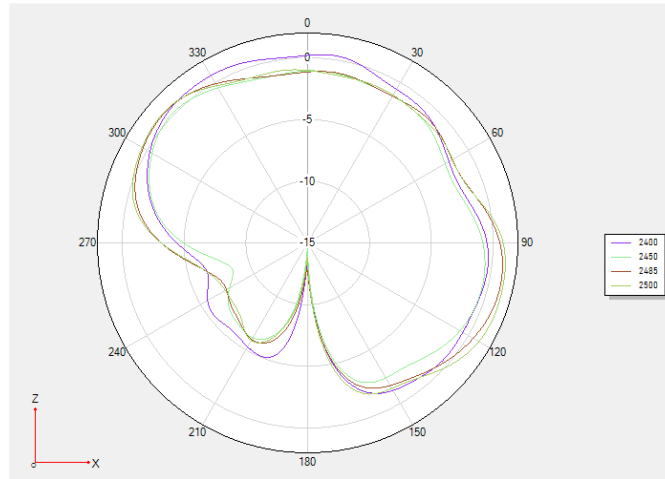
Phone: 0769-82016588

传真：0769-82011600

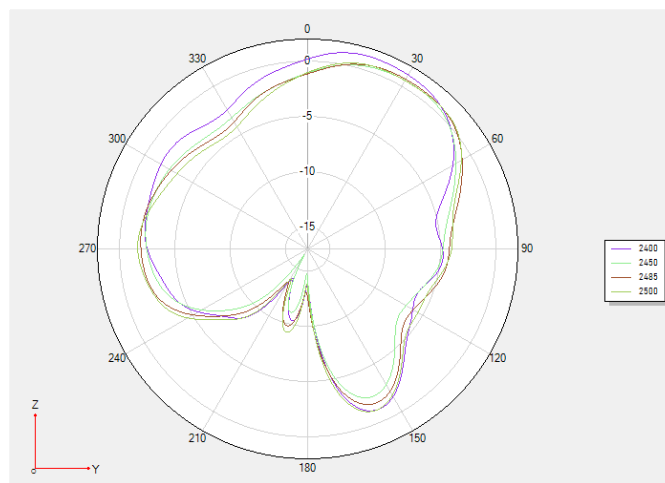
Fax: 0769-82011600

东莞市亿瑞电子科技有限公司

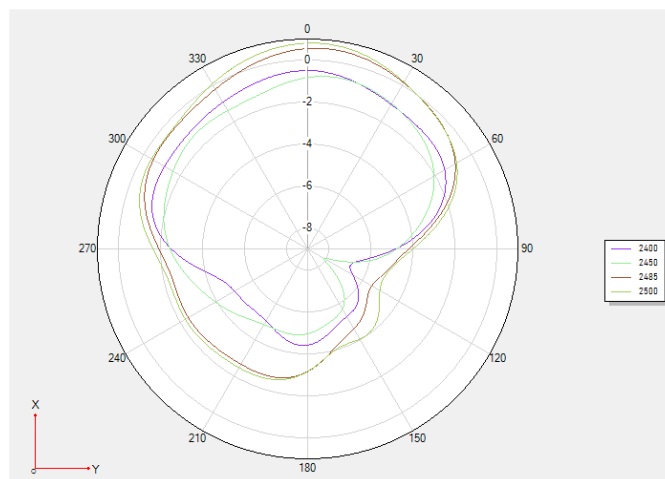
Dongguan Yirui Electronic Technology Co., Ltd



Phi 0 2D



Phi 90 2D



Theta 90 2D

地址：东莞市塘厦镇田心社区丰达工业区丰达路7栋13号二楼

Address: 2nd Floor, No. 13, Building 7, Fengda Road, Fengda Industrial Zone, Tianxin Community, Tangxia Town, Dongguan City

电话：0769-82016588

Phone: 0769-82016588

传真：0769-82011600

Fax: 0769-82011600