

# 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) BS1C40P3D53A

客 户 料 号

CUSTOMER P/N: ETGH230U000A1-YRD

亿 瑞 料 号

YR P/N: BS1C40P3D53A 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

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## *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

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## 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( $\Omega$ )	50 $\pm$ 10	Impedance( $\Omega$ )	50 $\pm$ 10
峰值增益(dBi)	3.13	Peak Gain(dBi)	3.13
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

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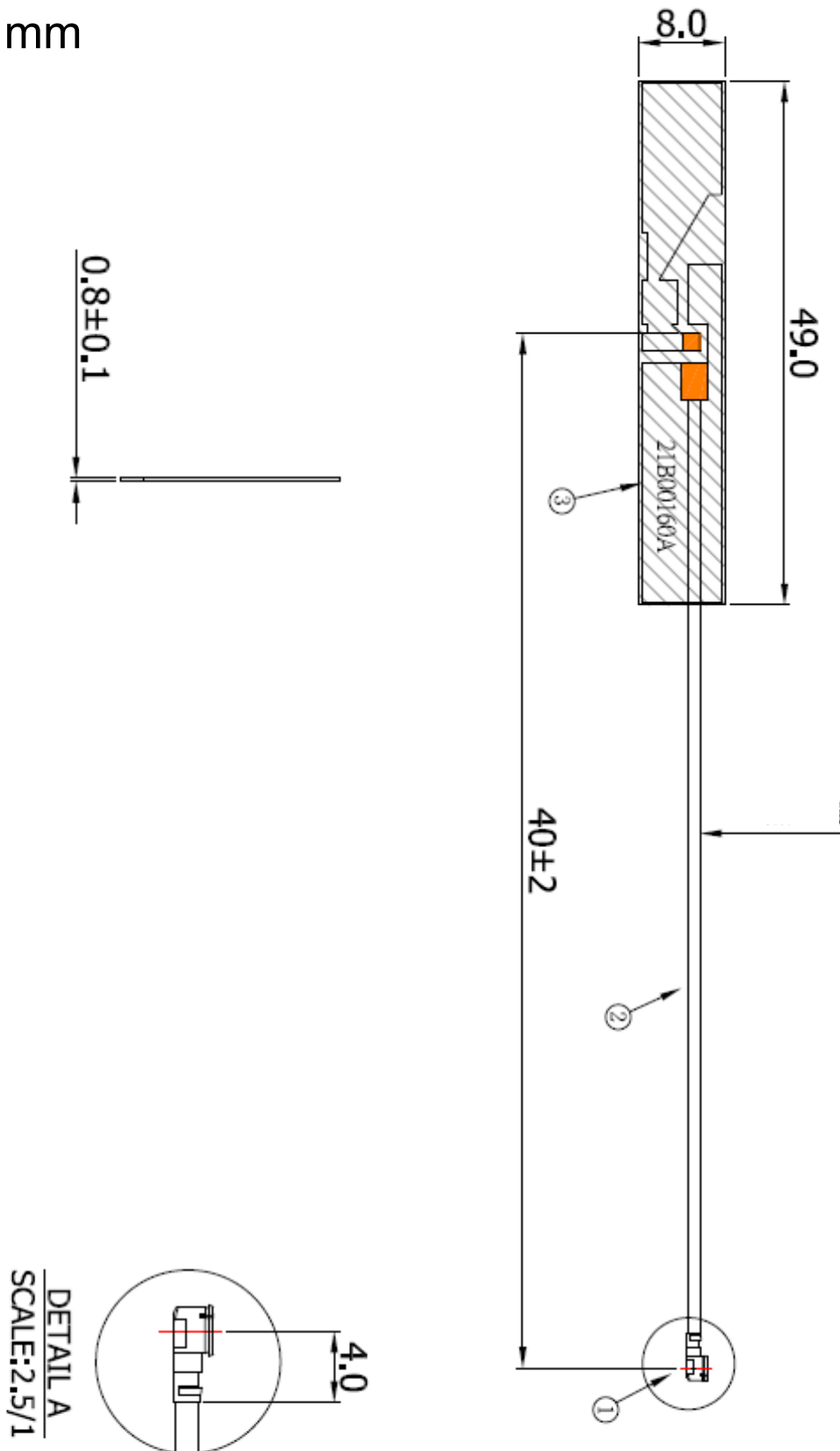
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2. 成品图 Finished product drawing:

unit: mm



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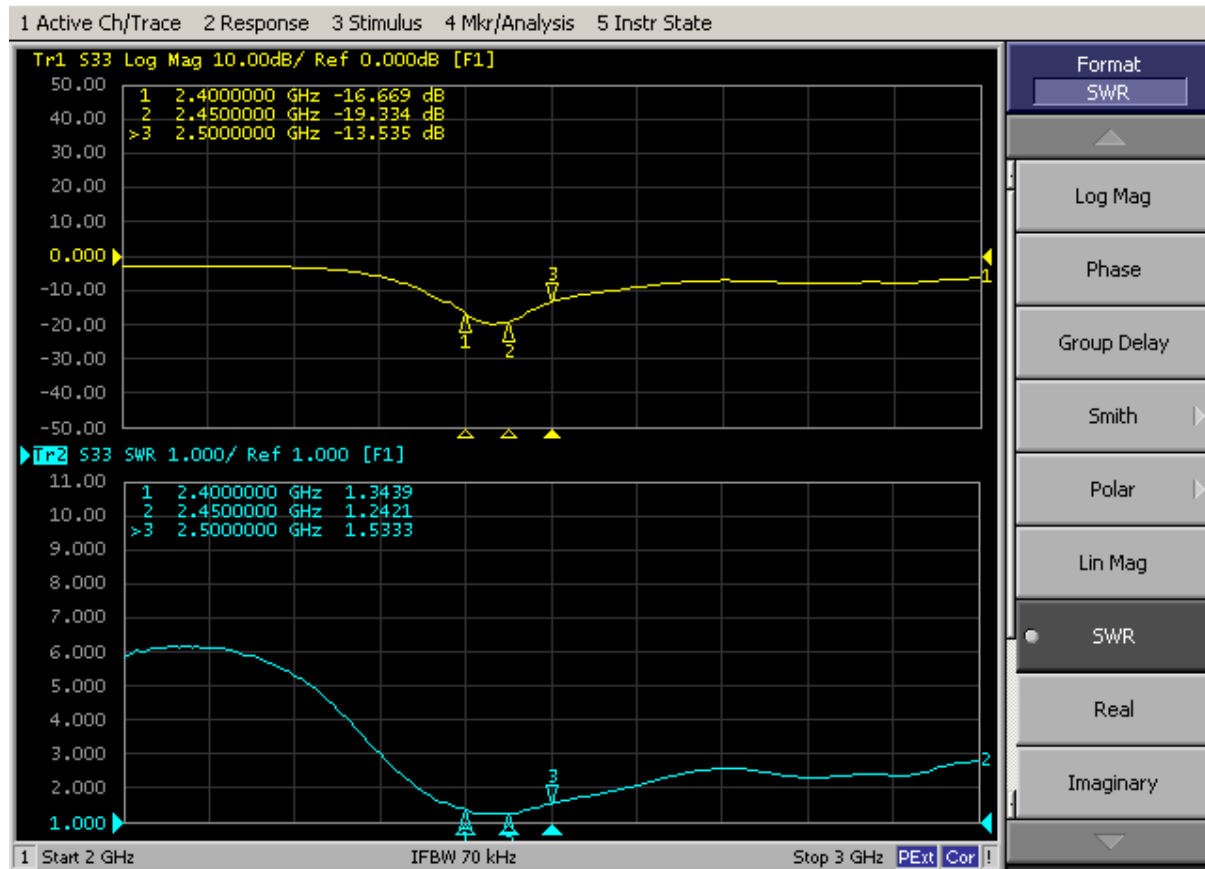
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## 3. 测试报告Test report

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



### 3.2: 暗室Darkroom 2D、3DRaditation 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	69.84	2.83
2450	73.34	3.13
2500	71.73	2.96

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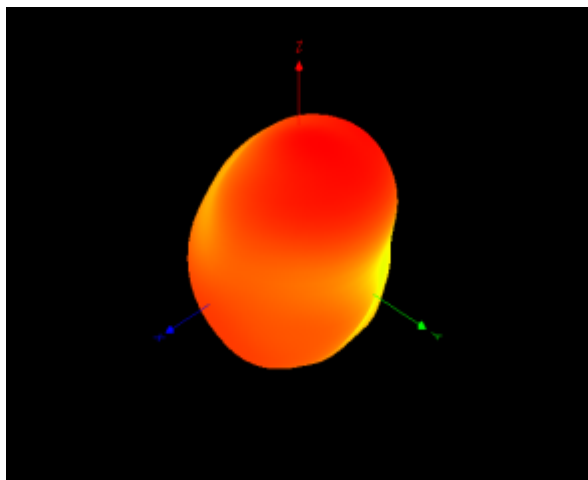
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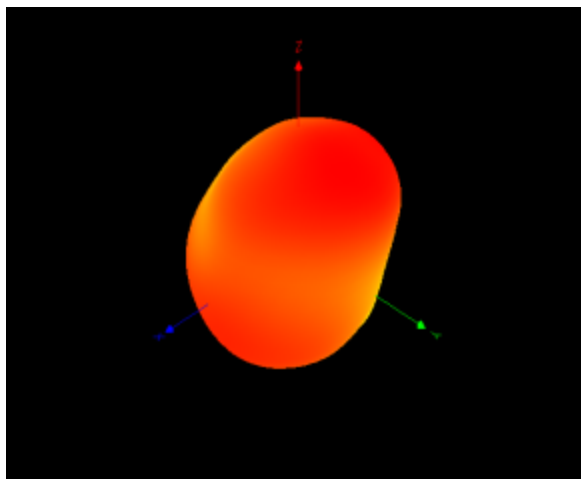
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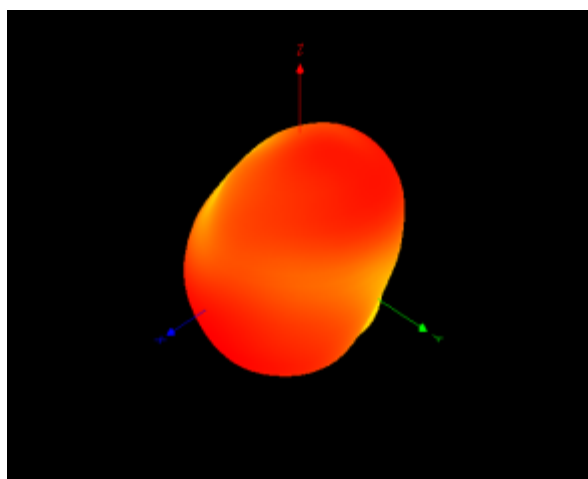
## 3.2.2 2D/3D 场型图Field plot



2400MHz



2450MHz



2500MHz

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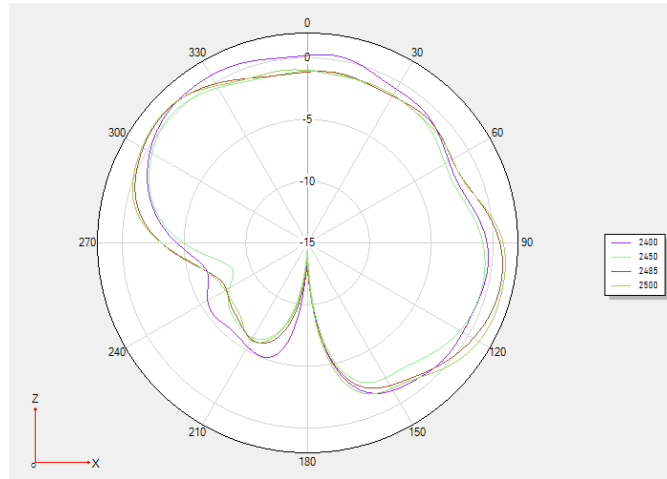
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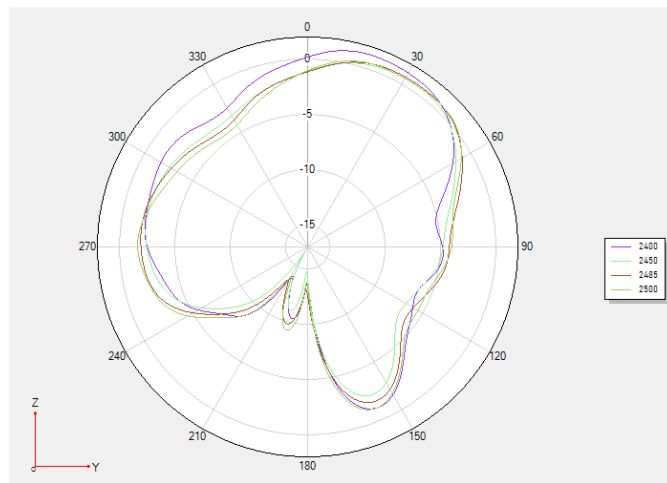
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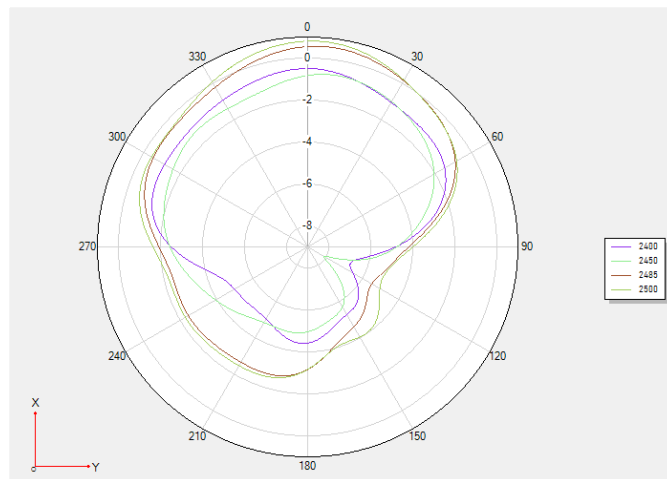
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Phi 0 2D



Phi 90 2D



Theta 90 2D

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