

SPECIFICATION FOR APPROVAL

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: 2.4G PCB 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:	EVINE	
DATE:	2022/7/07	

Contents

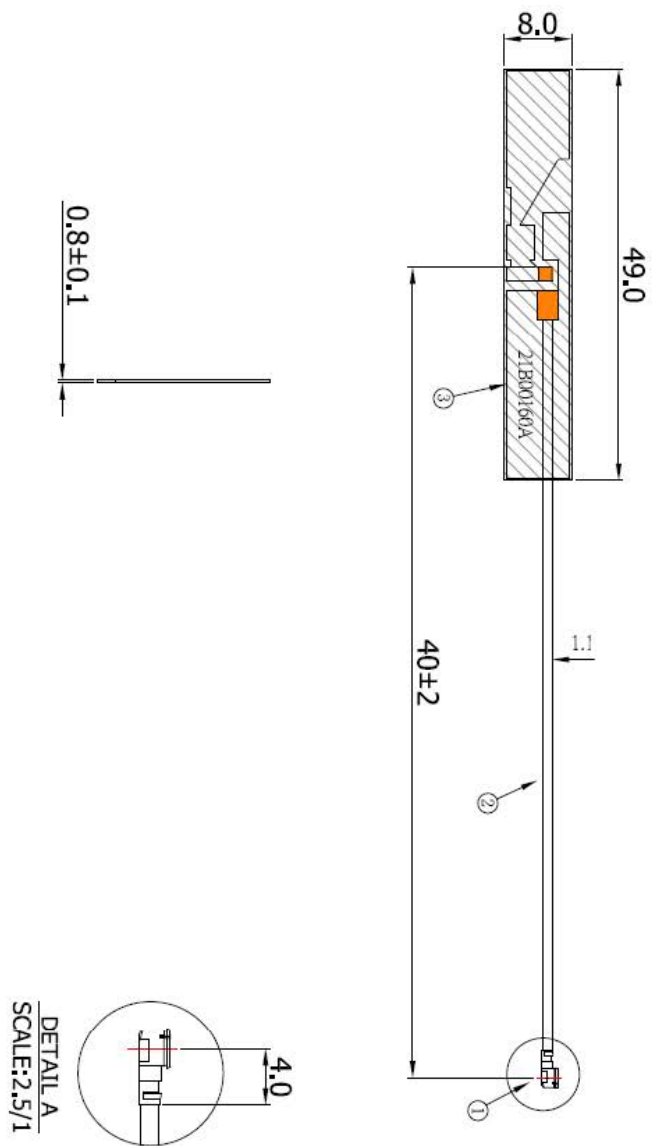
<i>Item</i>	<i>Description</i>
1.-----	Specification Table
2.-----	end-product drawing
3.-----	test report

Dongguan Yirui Electronic Technology Co., Ltd

Main technical parameters of the product

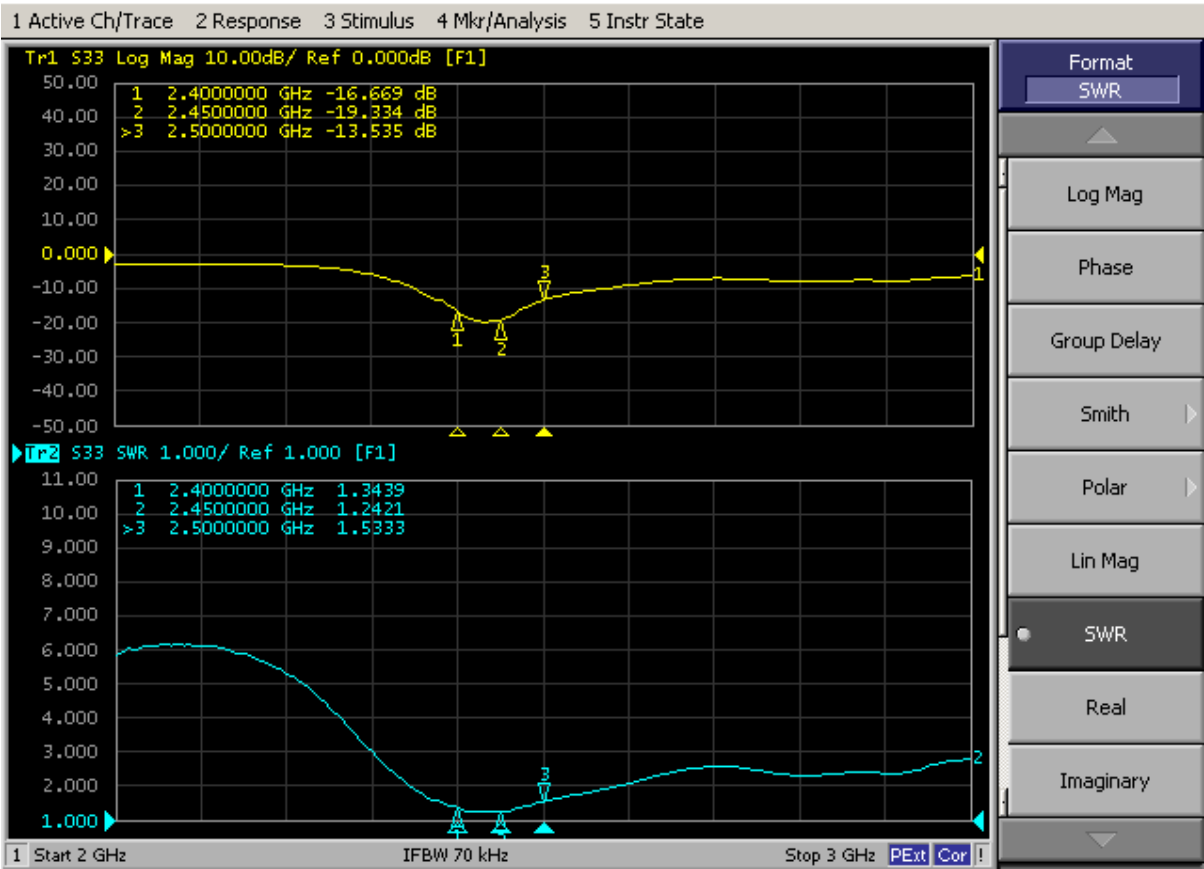
主要技术指标		Main technical specifications	
频率范围 (MHZ)	2400~2500	Frequency Range (MHZ)	2400~2500
特性阻抗(Ω)	50 $\pm$ 10	Impedance(Ω)	50 $\pm$ 10
峰值增益(dBi)	3.13	Peak Gain(dBi)	3.13
输出电压 驻波比	$\leq$ 1.92	VSWR	$\leq$ 1.92
最大功率	1W	Admitted Power	1W
极化方式	线极化	Polarization	Line,Vertical
连接方式	同轴线+端子	Connector Type	RF Cable+terminal
物理性能		Physical Properties	
天线本体材料	PCB	Antenna Base	PCB Antenna
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

2. Finished product image:
unit: mm



3. test report

3.1: Network Analyzer Test Report

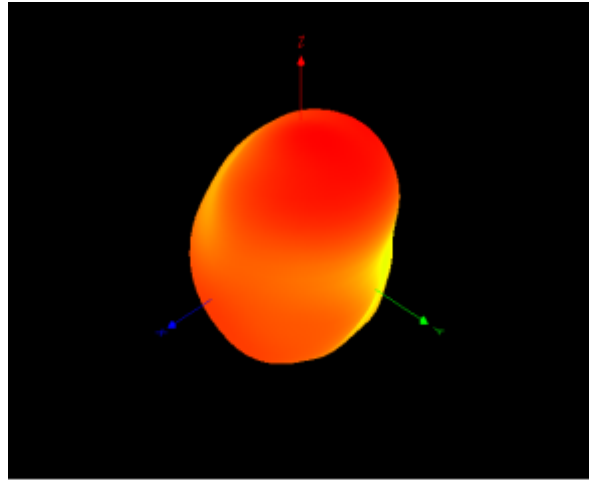


3.2: Darkroom 2D, 3D Radiation Pattern (whole machine data)

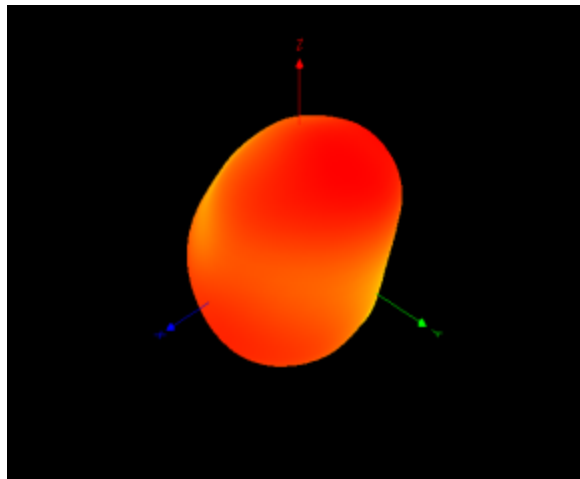
3.2.1 Efficiency and gain

Frequency (MHz)	Efficiency (%)	Peak Gain / dBi
2400	69.84	2.83
2450	73.34	3.13
2500	71.73	2.96

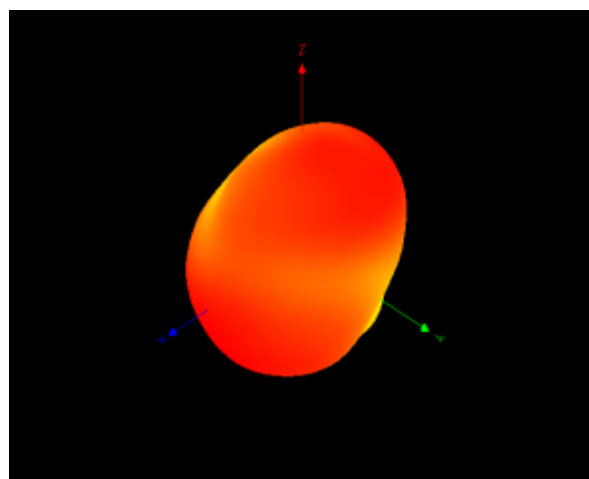
3.2.2 2D/3D Field diagram



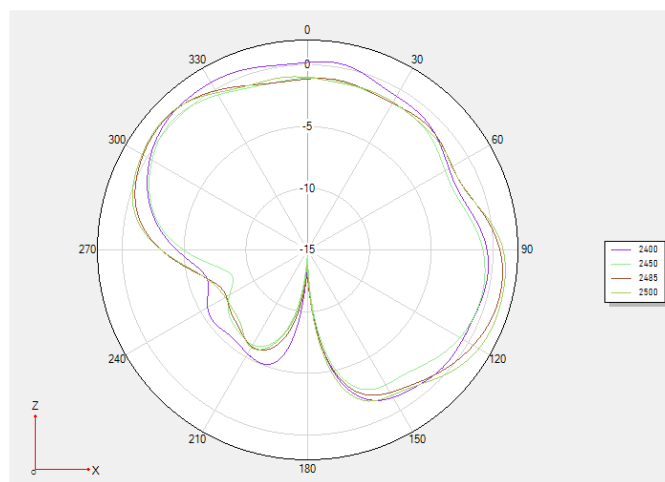
2400MHz



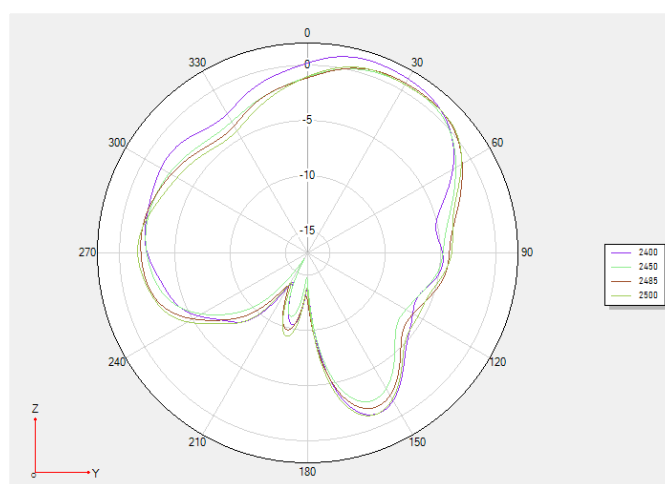
2450MHz



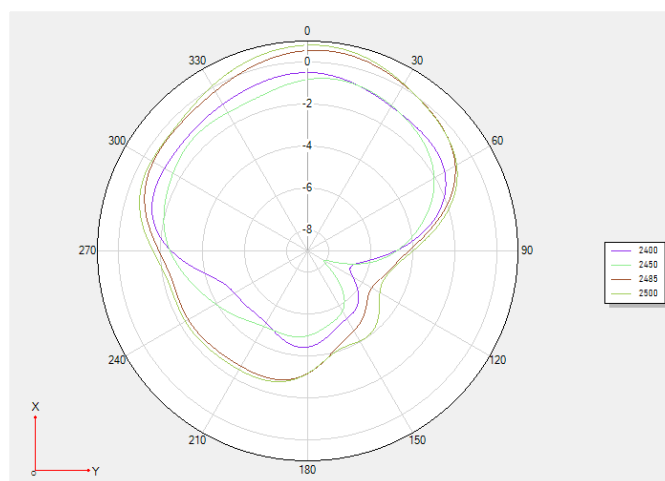
2500MHz



Phi 0 2D



Phi 90 2D



Theta 90 2D