



深圳市楚风通讯技术有限公司
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产品规格书

Product Specification Book

产 品 规 格: 2.4G-FPC-25*9MM-IPEX1-1.13线-线长6CM

日 期: 2026-05-16

深圳市楚风通讯技术有限公司

拟制 Drafters	核实 check	批准 Approver
汪慧欣	邹庆贤	姚霜
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目录

Directory

1、产品说明	Product Description
2、产品规格	Product Specifications
3、产品图片	Product Picture
4、测试环境	Test environment
5、环境可靠性测试	Environmental Performance
6、测试数据	Test data
7、工程图	Engineer ing drawings

2. 产品规格 Product Specifications

电气性能指标 Passive Electrical Specifications	
频率范围 Frequency Range (GHz)	2.4GHz
输入阻抗 Input Impedence (Ω)	50
电压驻波比 VSWR	2.20
峰值增益 Gain (dBi)	3.91
峰值效率 Efficiency (%)	56.04

机械指标 Mechanical Specifications	
产品尺寸 Antenna Size (mm)	25*9
馈电形式	IPEX4
颜色 Color	黑
连接线长度 Length	60mm

环境特性/Environmental Characteaistics	
ROHS标准 ROHS Complaint	符合
工作温度Operating Temperature (°C)	-45~+85
存储温度 Storage Temperature (°C)	-45~+85

3 . 产品图片 Product Picture



5、环境可靠性测试 Environmental Performance

测试项目 Test Description	测试程序和条件 Test Procedures & Condition	测试要求 Requirements
温湿测试 HumidityTemperature Cycling	(DecayTestConditions) : 温度:-40°C-85 °C:Temperature : -40°C-85 °C 湿度: 0%-90% (Humidity:0%-90% R.H) 持续时间:持续时间:室内72小时 室外96小时 Duration : 72 hours indoors 96 hours outdoors	1. 外观良好 (No evidence of damage) 2. 电气性能符合产品规格要求 (The electrical performances should meet the spec. specified)
高温试验 High temperature test	测试条件 (DecayTestConditions) : 温度: 60°C-85°C (Temperature:60 °C-80 °C) 持续时间:室内72小时 室外96小时 Duration : 72 hours indoors 96 hours outdoors	1. 外观良好 (Noevidenceof damage) 2. 电气性能符合产品规格要求 (Theelectrical performances should meet the spec. specified)
低温试验 Low Temperature test	测试条件 (DecayTestConditions) : 温度:-20°C-50°C (Temperature:-20 °C-50 °C) 持续时间:室内72小时 室外96小时 Duration : 72 hours indoors 96 hours outdoors	1. 外观良好 (No evidence of damage) 2. 电气性能符合产品规格要求 (The electrical performances should meet the spec.specified)
盐水喷雾试验 Salt Spray Test	测试条件 (DecayTestConditions) : 5%中性盐水喷雾; 温度:30°C-50 °C (Temperature:30°C-50°C) 持续时间:48小时 Duration : 72 hours indoors 96 hours outdoors	1. 外观良好 (No evidence of damage) 2. 电气性能符合产品规格要求 (The electrical performances should meet the spec.specified)

6. 测试数据 Test data

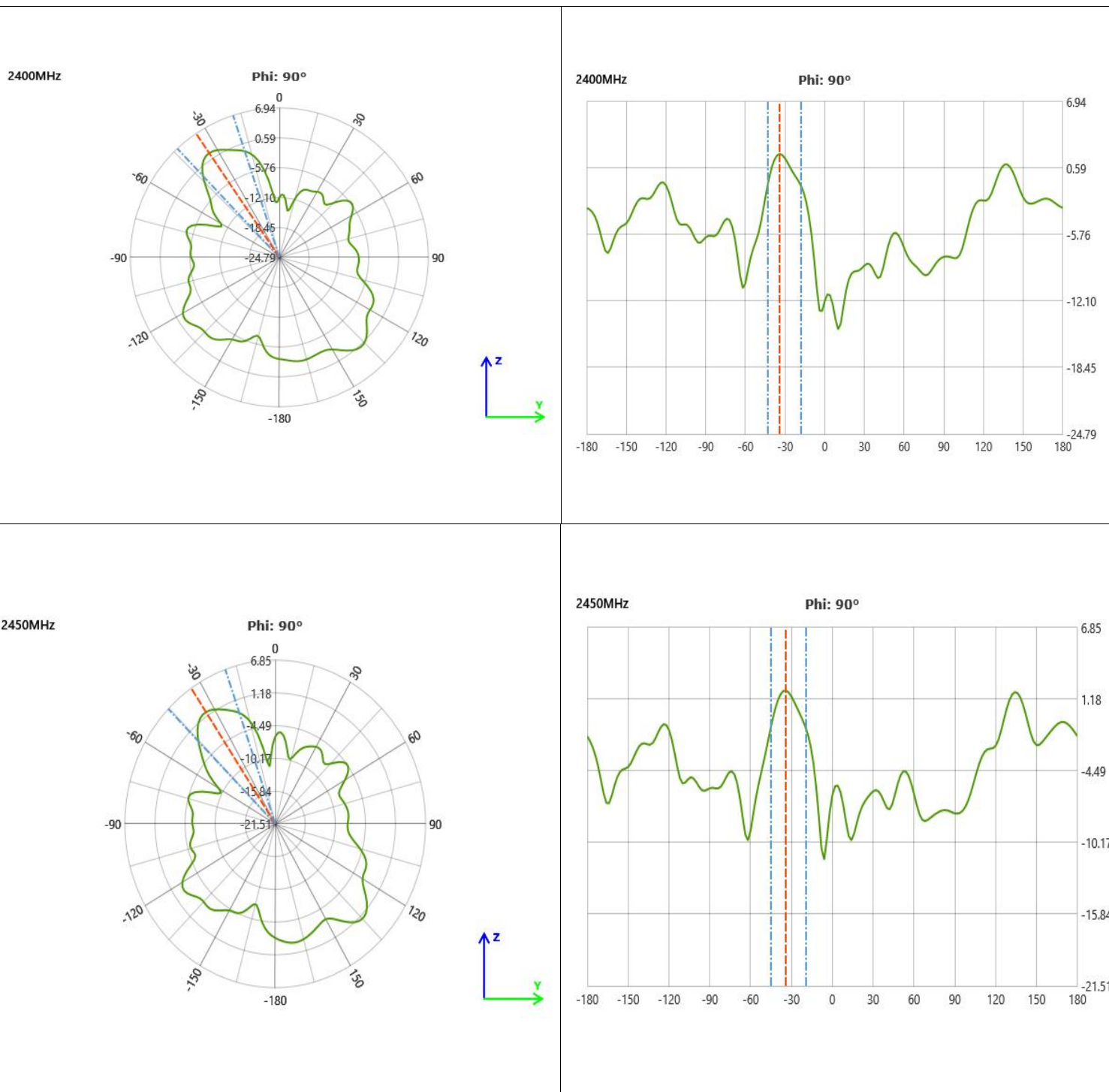
1、VSWR/LOSS/电压驻波/损失



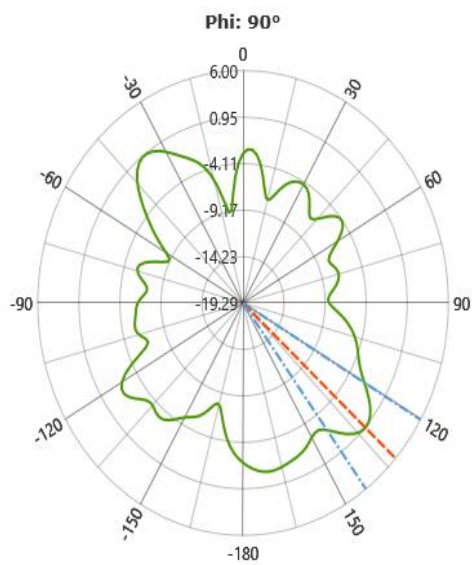
2、无源测试数据 Passivetest

Frequency(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2400	3.4	-2.53	55.83
2410	3.62	-2.46	56.7
2420	3.65	-2.57	55.4
2430	3.86	-2.47	56.66
2440	3.77	-2.47	56.67
2450	3.85	-2.51	56.05
2460	3.91	-2.51	56.04
2470	3.7	-2.72	53.43
2480	3.49	-2.86	51.75
2490	3.14	-3.07	49.35
2500	3	-3.24	47.47

3、3D方向图 Radiation Pattern

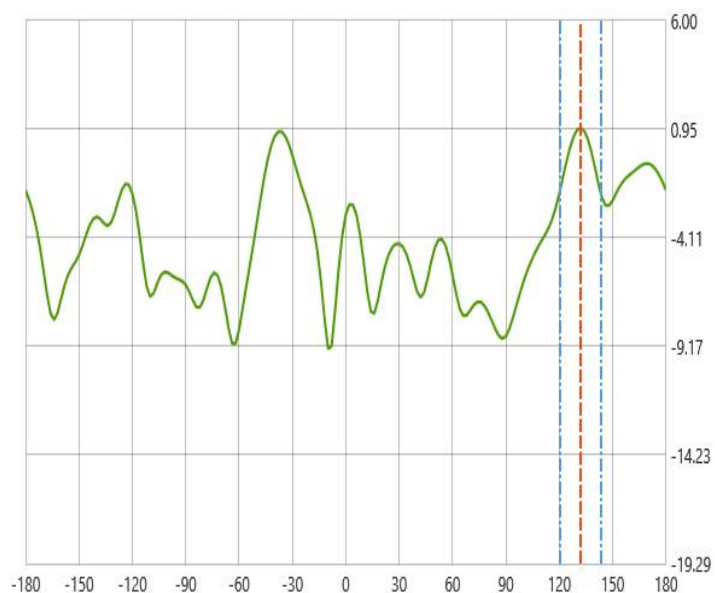


2500MHz

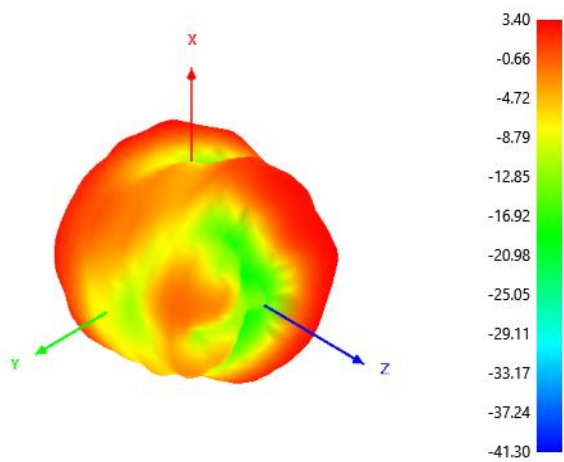


2500MHz

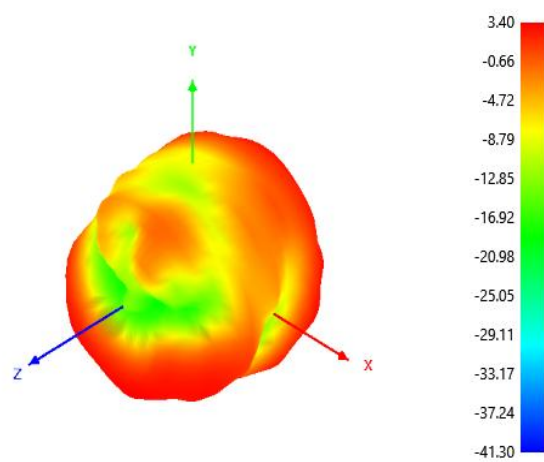
Phi: 90°

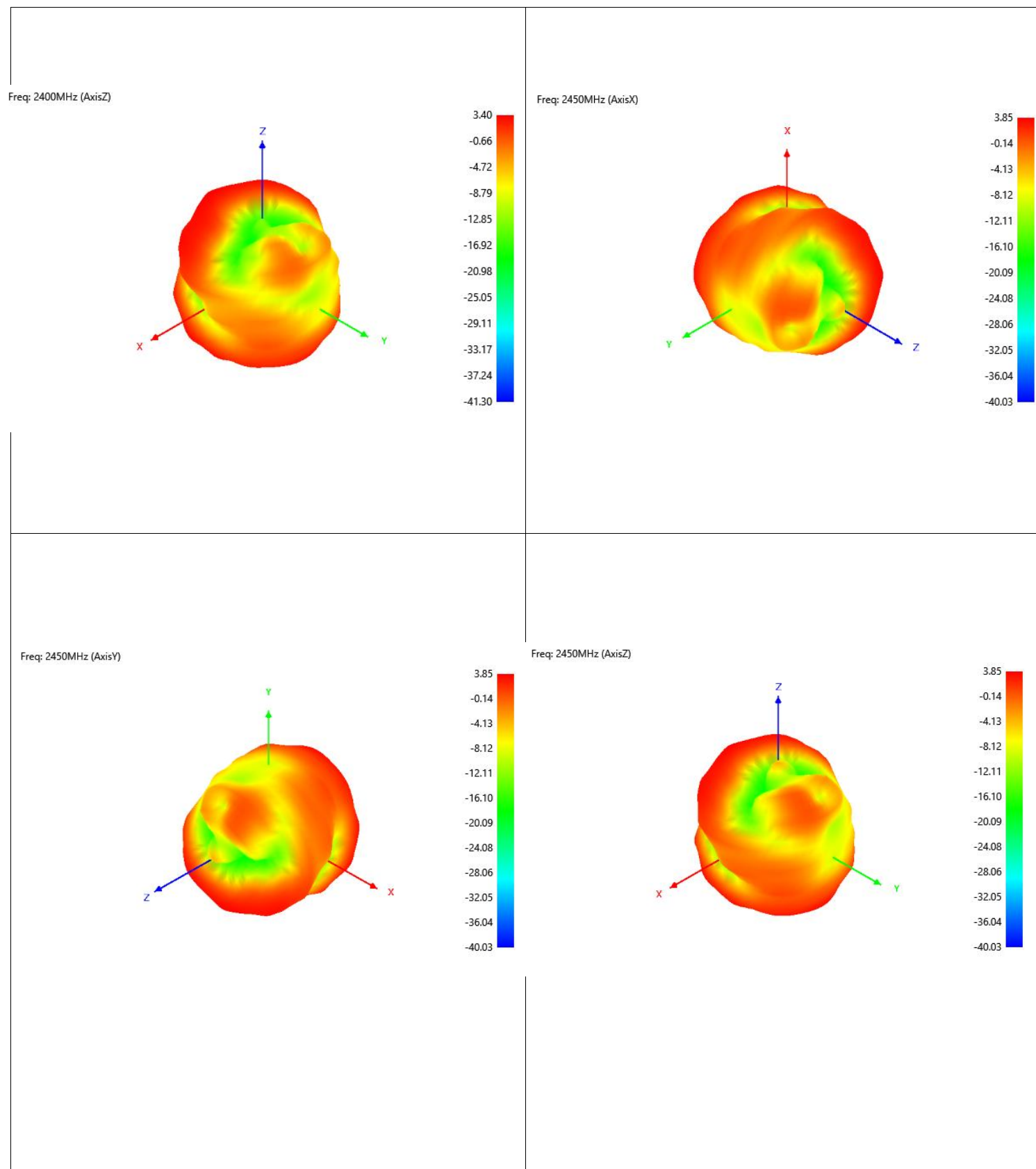


Freq: 2400MHz (AxisX)

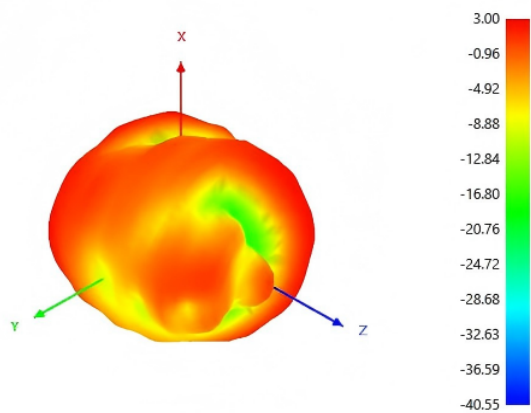


Freq: 2400MHz (AxisY)

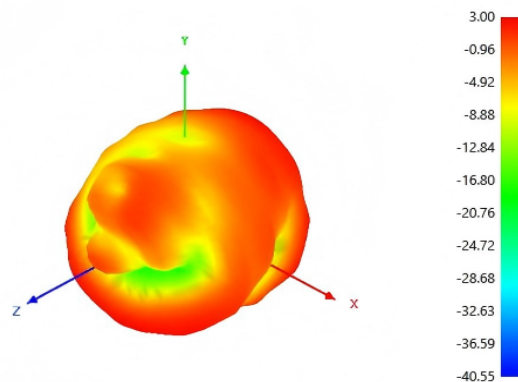




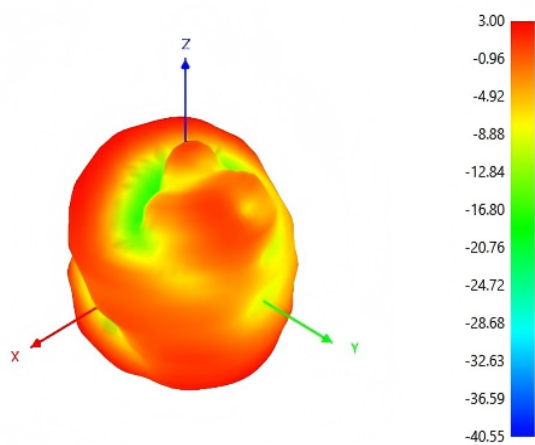
Freq: 2500MHz (AxisX)



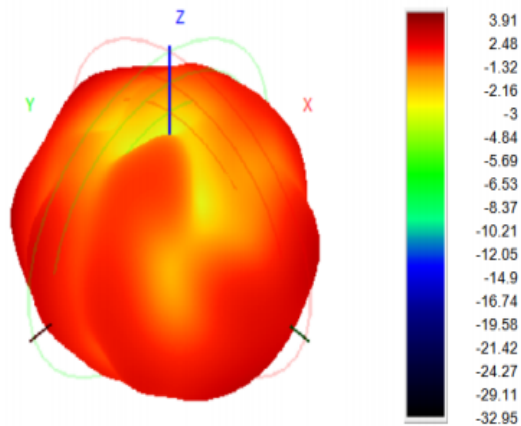
Freq: 2500MHz (AxisY)



Freq: 2500MHz (AxisZ)



2460MHZ



7 、 工程图 Engineering drawings

