

深圳市华芯无线技术有限公司

Shenzhen Huaxin Wireless Technology Co., Ltd

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产品规格书

SPECIFICATION FOR APPROVAL

Customer Name: Jinkai IoT Technology Co., Ltd

Project Name: BLE5010-01

Specification Description: 2.4GWIFI-25*8FPC-110mm (1.13)

Sate : 2025-09-05

拟制 Drafters	核实 check	批准 Approver
Zou Qingxian	Zhao Shan	Zhang Qiang

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1 、产品说明 Product Description

产品类型:	PCB antenna
天线频段:	2400MHZ-2500MHZ
天线形式:	/
馈电形式:	/
馈脚数量:	1个
硬件版本:	V01

2 .产品规格 Product Specifications

无源电性能指标 Passive Electrical Specifications	
频率范围 Frequency Range (MHz)	2400-2500
输入阻抗 Input Impedence (Ω)	50
电压驻波比 VSWR	<2.0
增益 Gain (dBi)	2.89
效率 Efficiency (%)	≤ 56.30

3 、测试环境 Test environment

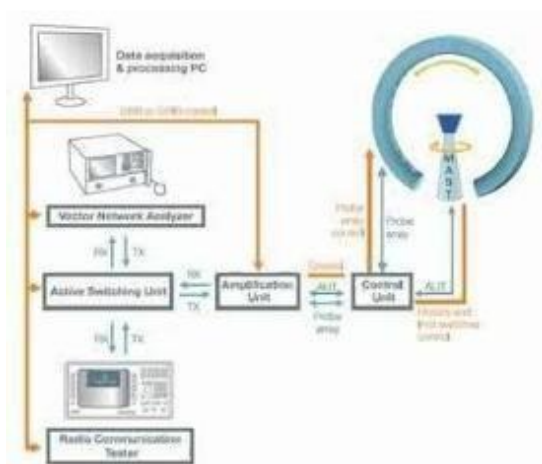
Network analyzer: ZVP8

NetworkAnalyzer:ZVB8

Comprehensive tester: R&SCMW500 (2/3/4G/NB IoT/WIFI/BT); Microwave

darkroom: 5GSISO/MIMO, 400MHz-8.0GHz

RayZone ® 2800Chamber5G(FR1)SISO/MIMO,400MHz-8.0GHz



4 、环境可靠性测试 Environmental Performance

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 Humidity Temperature Cycling	(Decay Test Conditions) : 温度:-20°C-80 °C: Temperature : -20°C-80 °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 (Decay Test Conditions) : 温度: 60°C-150°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 (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)
低温试验 Low Temperature test	测试条件 (Decay Test Conditions) : 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)

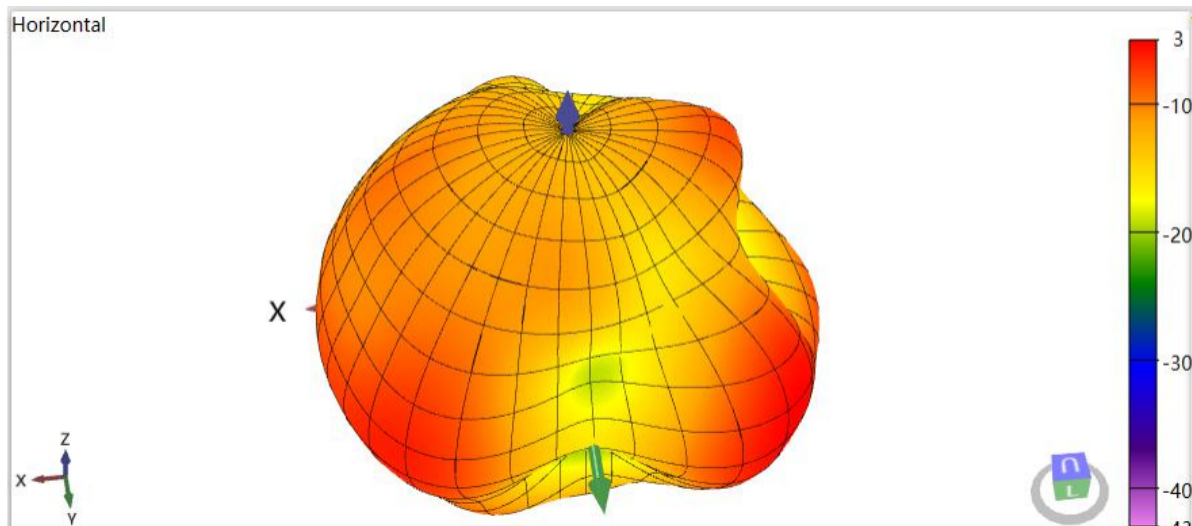
5 、测试数据 Test data

- Passive test data

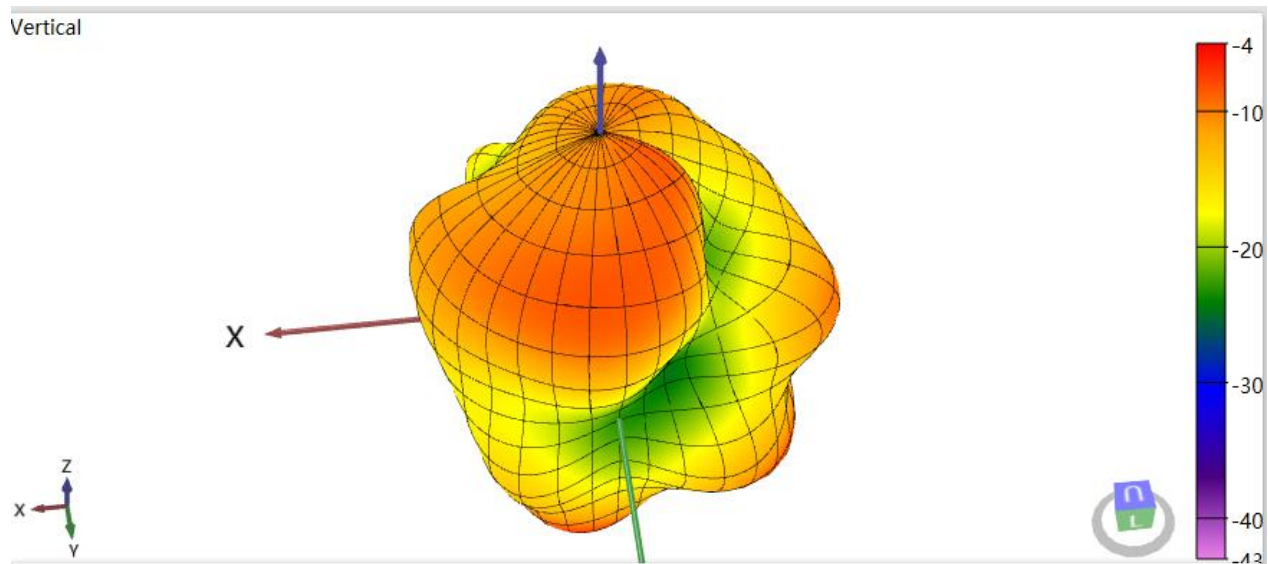
Frequency/ MHz	MaxGain/d Bi	AvgGain/d Bi
2400	2.89	-2.69
2410	2.15	-3.12
2420	2.59	-2.68
2430	2.08	-2.98
2440	2.37	-2.64
2450	2.37	-2.76
2460	2.36	-2.85
2470	2.12	-2.5
2480	2.32	-2.97
2490	2.37	-2.6
2500	2.3	-3.1

- 3D direction diagram

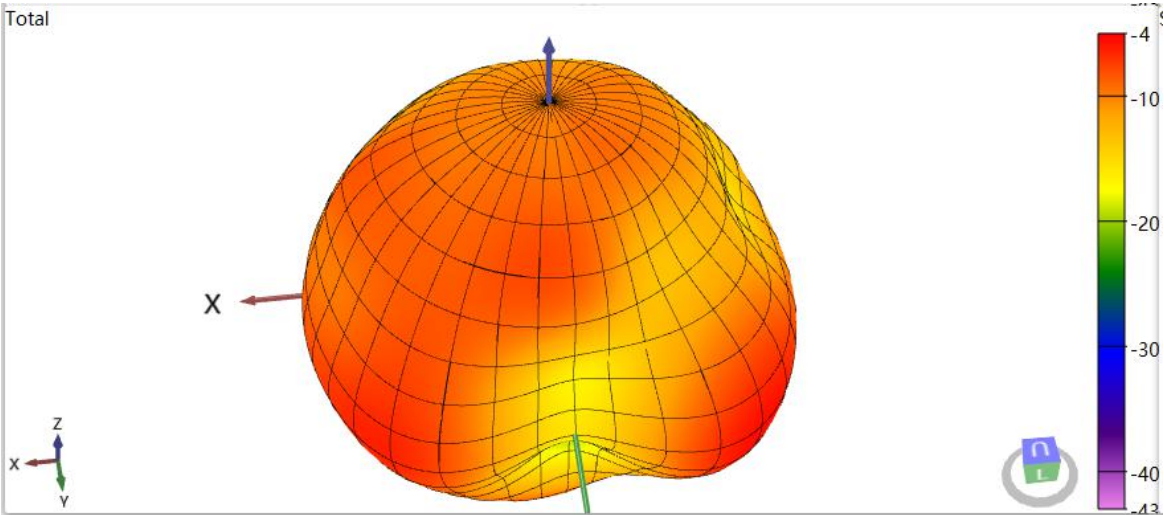
2400MHz



2440MHz



2500MHz



6 、 工程图 Engineer ing drawings

