



深圳市楚风通讯技术有限公司

Shenzhen ChuFeng communication technology co., LTD

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产品规格书
Product Specification Book

深圳市楚风通讯技术有限公司

拟制 Drafters	核实 check	批准 Approver
The antenna is designed for superior performance, and can be widely used for wireless applications. We provide comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs. 该天线设计性能优越，可广泛用于无线应用。 我们为定制天线解决方案提供仿真，测试和制造等全面的天线设计支持，以满足您的具体应用需求。		

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1 、产品说明 Product Description

天线频段:	902-928MHz
天线形式:	内置天线
馈电形式:	焊接
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)	902-928MHZ
输入阻抗 Input Impedence (Ω)	50
电压驻波比 VSWR	<2.5
增益 Gain (dBi)	≥ 0.5
效率 Efficiency (%)	≥ 35

机械指标 Mechanical Specifications	
天线尺寸 Antenna Size (mm)	0.8*5.05*15
工作温度 Working Temperature ($^{\circ}$ C)	-40 —85

3 . 产品图片 Product Picture



4 、测试环境 Test environment

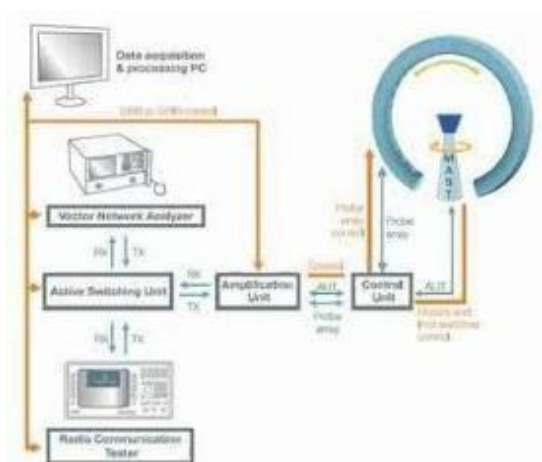
网络分析仪：ZVB8

Network Analyzer:ZVB8

综合测试仪：Comprehensive tester: R&S CMW500(2/3/4G/NB-IoT/WIFI/BT);

微波暗室: 5G SISO/MIMO, 400 MHz - 8.0 GHz

RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz - 8.0 GHz

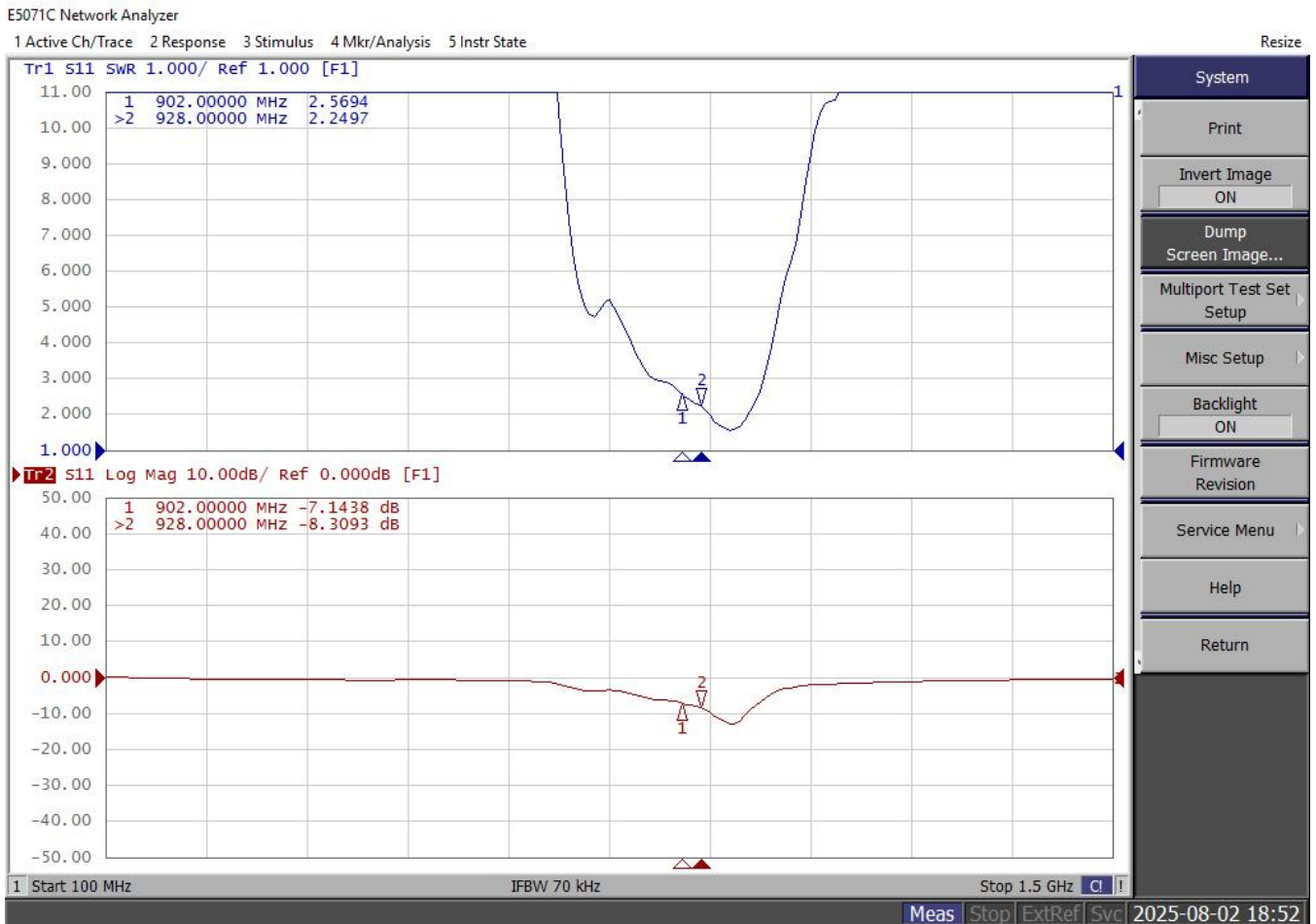


5、环境可靠性测试 Environmental Performance

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:-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 (Decay Test Conditions) : 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 (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)

6. 测试数据 Test data

- VSWR/LOSS/电压驻波/损失



- 无源测试数据
Passivetestdata

Efficiency/效率

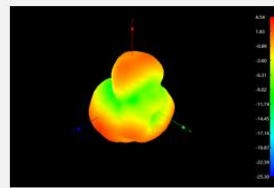
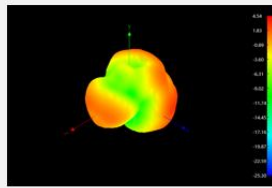
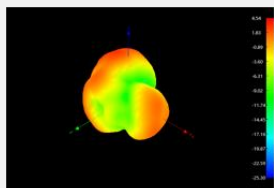
Frequency/ M	Efficiency / dB	Efficiency / %
902	-4.61	33.55
904	-4.78	31.88
906	-5.08	39.08
908	-4.49	34.77
910	-3.97	30.47
912	-3.92	31.05
920	-3.75	33.09
922	-3.74	33.21
924	-3.97	30.47
926	-4.12	38.75
928	-4.36	36.13

Gain/增益

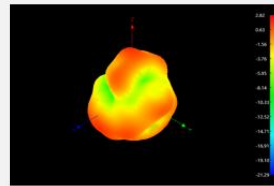
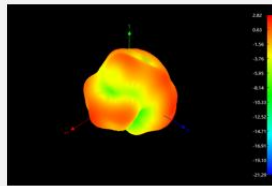
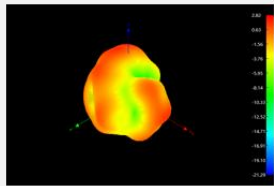
Frequency/ MHz	MaxGain/dB i	AvgGain/dB i
902	0.68	-5.42
904	0.87	-5.19
906	0.44	-5.17
908	0.46	-5.13
910	1.27	-4.89
912	1.02	-4.95
920	1.01	-4.78
922	1.09	-4.66
924	0.78	-4.85
926	0.7	-5.01
928	0.22	-4.01

- 3D方向图
radiation pattern

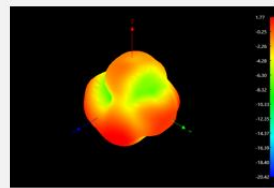
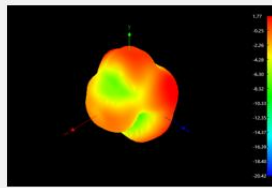
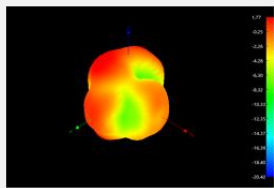
902MHZ



915MHZ



928MHZ



8 、 工程图 Engineer ing drawings

