

深圳市芯致微电子有限公司
Shenzhen XinZhi Microelectronics Co., LTD

产品规格书

SPECIFICATION FOR APPROVAL

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1 、产品说明 Product Description

客户名:	
整机类型:	外置胶棒天线
天线频段:	800-1000MHZ/1700-2700MHZ
天线形式:	外置天线
极化方式:	垂直
馈脚数量:	/
硬件版本:	V1

2 、产品图片 Product Picture



3 、产品规格 Product Specifications

无源电性能指标 Passive Electrical Specifications	
频率范围 Frequency Range (MHz)	800-100/1700-2700
输入阻抗 Input Impedence (Ω)	50
电压驻波比 VSWR	<3
增益 GAIN(dBi)	≥ 2

机械指标 Mechanical Specifications	
工作温度 Working Temperature (° C)	-30—+80
颜色 Line color	黑色
天线尺寸 Antenna size (MM)	195
接口型号 Interface type	SMA内针

4 、测试环境 Test environment

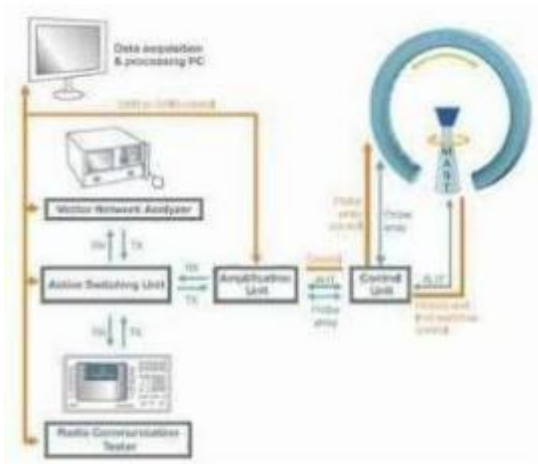
网络分析仪：ZVB8

Network Analyzer:5071c

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:-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- 80°C (Temperature:60°C- 85°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-40°C (Temperature:-20°C-40°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)

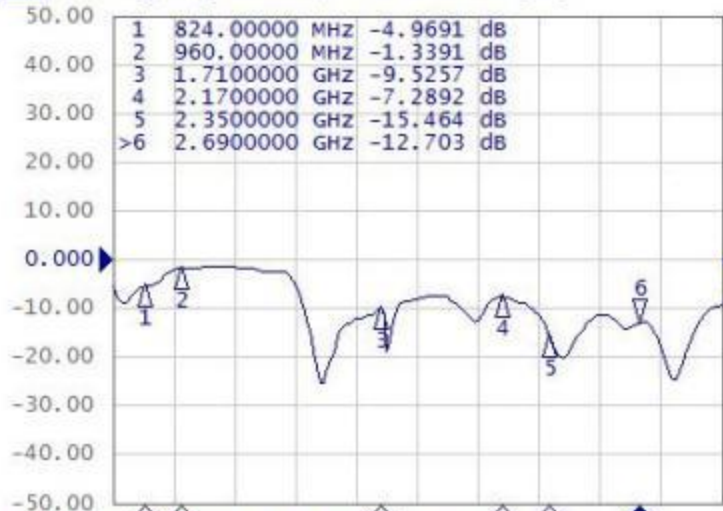
6 、测试数据 Test data

VSWR/LOSS/电压驻波/损失

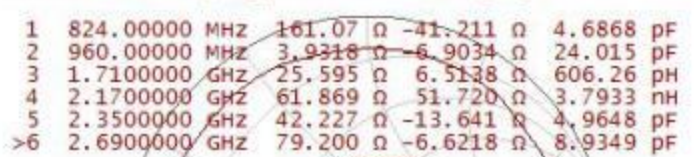
E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

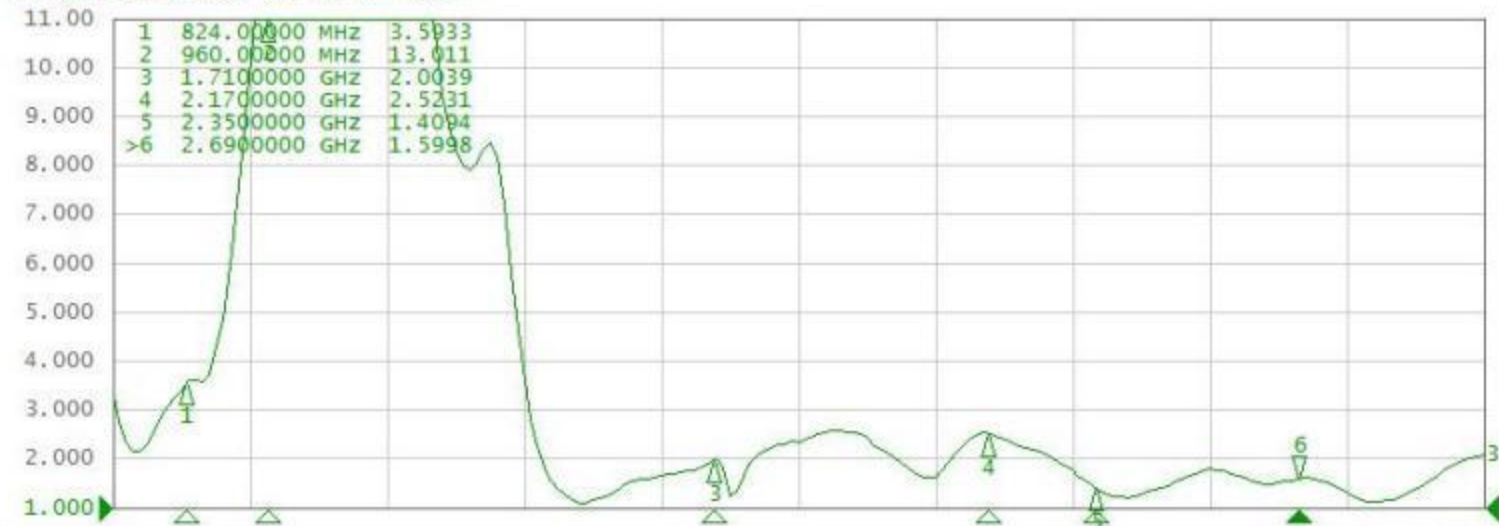
Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F2]



Tr2 S11 Smith (R+jX) scale 1.000u [F2]



Tr3 S11 SWR 1.000/ Ref 1.000 [F2]



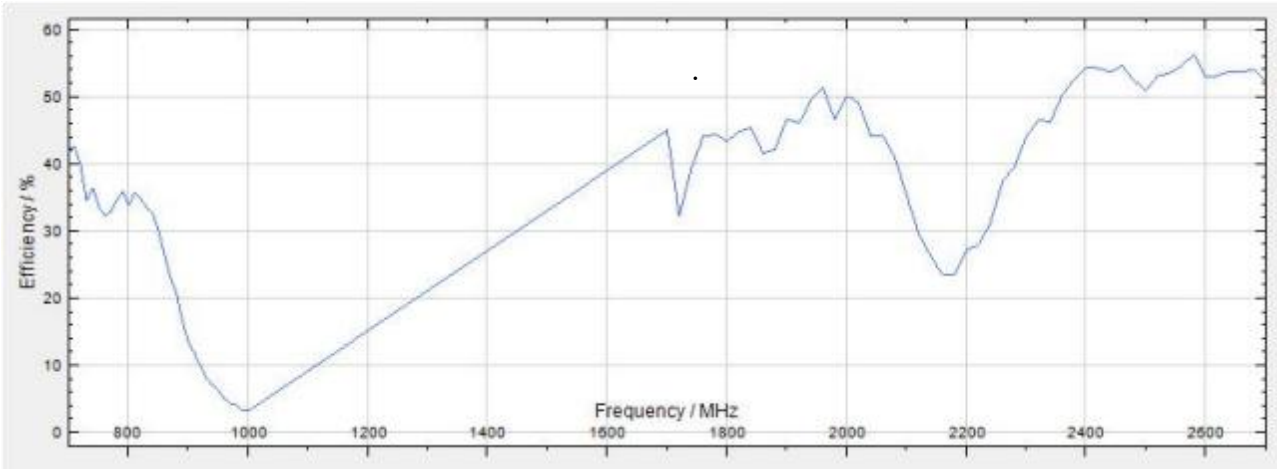
1 Start 700 MHz

IFBW 70 kHz

Stop 3 GHz

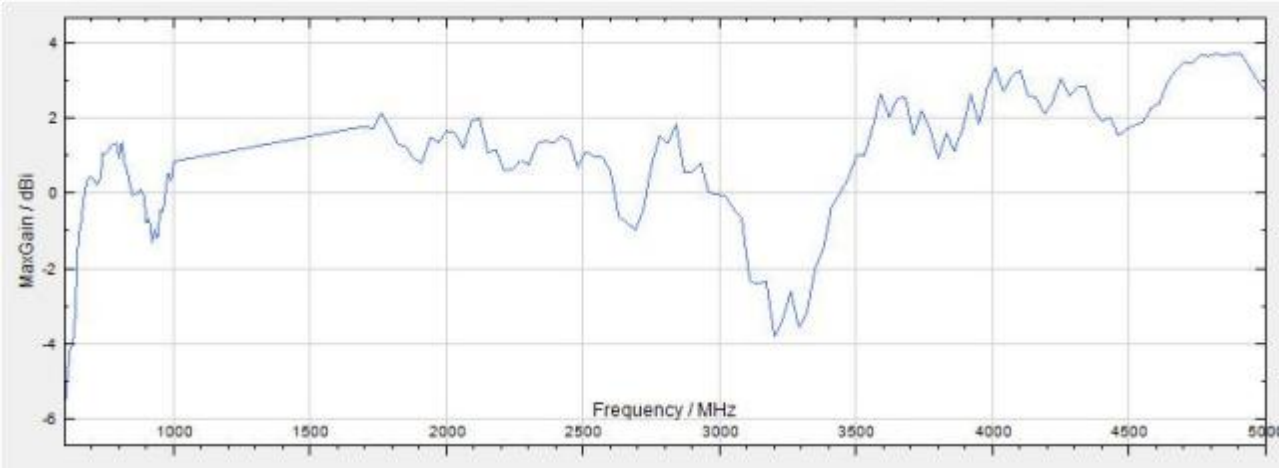
Meas Stop ExtRef Svc

效率Efficiency / %



Frequency/Mhz	820	960	1710	1950	2170	2350	2690
Efficiency%	36.56	26.49	45.08	49.55	35.48	50.35	53.7

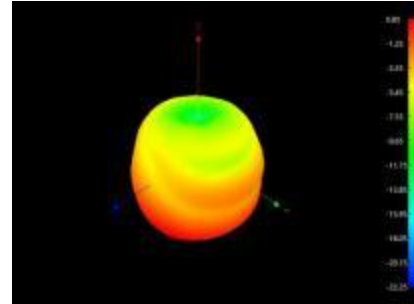
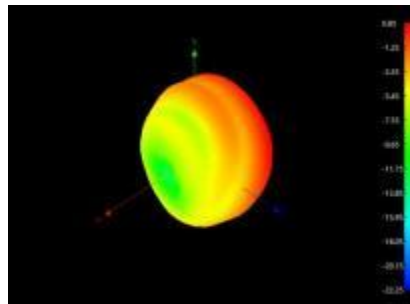
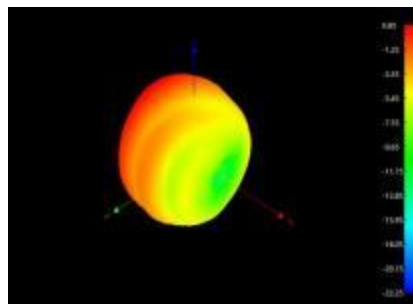
增益MaxGain/dBi



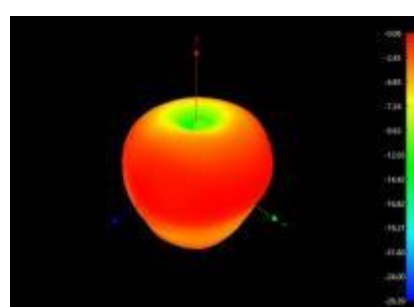
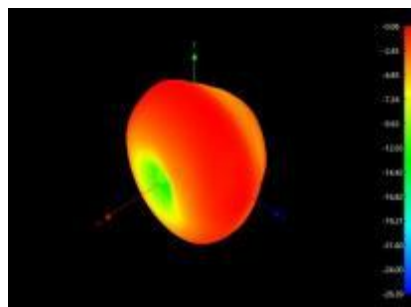
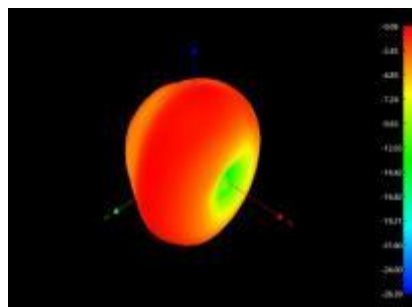
Frequency/Mhz	820	960	1710	1950	2170	2350	2690
Gain/dBi	0.33	0.33	0.44	0.36	0.39	2.29	1.68

方向辐射图 Radiation Patterns

880M



820M



960M

