
深圳市雅诺讯科技有限公司

产品规格书

PRODUCT SPECIFICATION

Customer:

Customer's part number:

Product description: 550MHZ Terminal Antenna

Uni Link's part number: OLFA-550-3

Issue Date: 2019-11-9

Note: 550MHZ,BNC,

1、产品技术指标 (PRODUCT TECHNICAL SPECIFICATION)

电性能指标 Electrical Specifications	
频率范围 Frequency Range (MHz)	550-579.25
频带宽度 Bandwidth (MHz)	60
输入阻抗 Input Impedence (Ω)	50
电压驻波比 V.S.W.R	≤ 1.5
增益 Gain (dBi)	ANT-A: 3dBi ANT-B: 3dBi
极化形式 Polarization Type	垂直 Vertical
功率容量 Power Capacity (w)	50
机械指标 Mechanical Specifications	
天线长度 Antenna Length (mm)	260

辐射体 Radiator	铜 Cuprum
连接器型号 Connect Type	BNC-Male
工作温度 Working Temp(°C)	-40~85
外壳颜色 Radome Color	黑色 Black
重量 Weight (g)	28

2、电气特性(ELECTRIC APPLIANCE CHARACTERISTICS)

项目 ITEM		测试环境 TEST CONDITION	规格 SPECIFICATION
1	返回损耗 Return Loss	使用 Agilent 网络分析仪 8753ET 测量天线 S11 之返回损耗参数 Using Agilent Network Analyzer 8753ET to Measure Antenna S11 Return Loss Characteristics.	19
2	电压驻波比 VSWR	使用 Agilent 网络分析仪 8753ET 测量天线 S11 之电压驻波比参数 Using Agilent Network Analyzer 8753ET to Measure Antenna S11 VSWR Characteristics.	1.5

3	阻抗 Smith chart	使用 Agilent 网络分析仪 8753ET 测量天线 S11 之史密斯阻抗参数 Using Agilent Network Analyzer 8753ET to Measure Antenna S11 Gain Response Characteristics.	50
4	增益效应 Gain response	使用 Agilent 网络分析仪 8753ET 测量天线 S21 之史密斯阻抗参数 Using Agilent Network Analyzer 8753ET to Measure Antenna S21 Gain Response Characteristics.	3

3、机械性能（MECHANICAL CHARACTERISTICS）

1	摇摆测试 BENDING TEST	The load on the wire end of 30CM away from the joint is 120g. After fixing the joint, the remote pendulum test is carried out. The remote pendulum Angle is 60 degrees, and the characteristics are tested after 1000 remote pendulum.	After 1000 times of remote pendulum test, there is no phenomenon showing the damage of electrical performance.
2	强度测试 STRENG TEST	A 15 lb static load is applied to the bottom of the pay-off end for one minute.	There are no signs of mechanical or electrical failure.

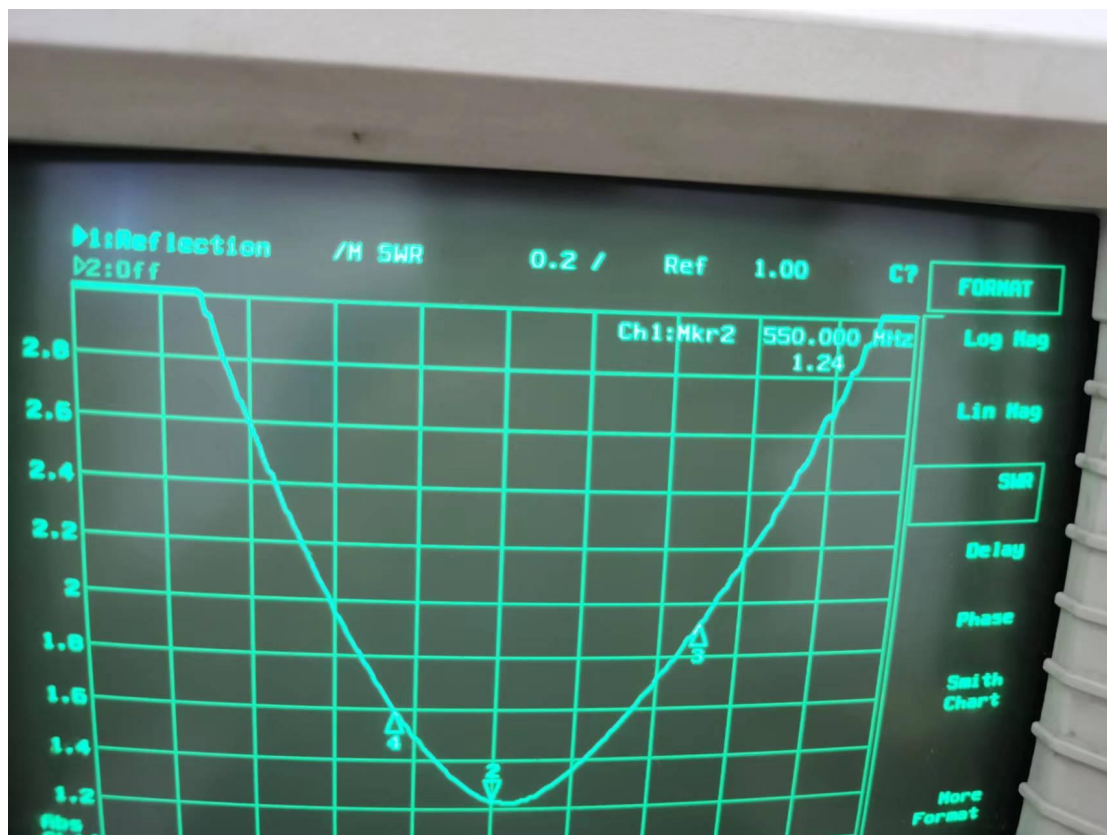
3	拉力测试 PULLING FORCE	Tension test between tension gauge joints and wires.	It can withstand the pulling force of 7Kg without any phenomenon showing the damage of electrical performance.
4	振动测试 VIBRATION TEST	Vibration in the X axis direction for 120 minutes, Y axis direction for 120 minutes and Z axis direction for 240 minutes at 1.10mm and amplitude and 33.30Hz/sec vibration frequency.	There is no indication of damage to electrical performance.

4、耐久性测试（DURABILITY）

1	盐雾试验 SAIT SPRAY TEST	Saline spray test: according to GB1266-86 standard Distilled water: a single distillation PH6.5 ~ 7 Spray volume: 1.4me80cm ² /h Compressed air pressure: 1Kgf/ cm ² Test relative degree: 98° Temperature: 45°~47° Pressure temperature: 35° Test time: 96hr	48 小时
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2	高温试验 HEAT TEST	在 85+2℃环境中放 96 小时，再放在正常环境中 30 分钟后进行测试 85+2℃ for 96 hours, after keep in normal condition for 30min the to test.	所有规格变化范围初始值 30% All characteristic range is 30% of the initial value
3	湿度试验 HUMIDITY TEST	在 40+2℃ 90-95%RH 环境中放 96 小时，再放在正常环境中 30 分钟后进行测试 40+2℃ 90-95%RH for 96hours, after keep in normal condition for 30min the to test.	
4	低温试验 COLD TEST	在-40+2℃ 环境中放 96 小时，再置放正常环境中 30 分钟后进行测试 -40+2℃ for 96hours, after keep in normal condition for 30min the to test.	

5、驻波图 (STATIONARY WAVE PATTERN)



6.product picture

