



产品规格书

**PRODUCT SPECIFICATION**

Customer:

Customer's part number:

Product description: 3dbi Outdoor IP68 868MHZ antenna

Uni Link's part number: SW-868-1383

Issue Date: 2015-01-28

Note: 868MHZ,3dbi,N male connector,300mm.ROHS,CE,ISO

客户签名			深圳市信高维科技有限公司		
核准	审核	检查	核准	审核	检查



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信高维科技有限公司

Shenzhen Signalwell Technology CO., LTD



## 一、目录

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

中心频率 Center Frequency (MHz)	868MHZ
输入阻抗 Input Impedence ( $\Omega$ )	50ohm
电压驻波比 V.S.W.R	$\leq 1.8$
最大电压 (Maximum Power )	100 Watts
极化强度 (Polarization Intensity)	Vertical
方向 (antenna type)	1/4 wave
增益 Gain (dBi)	3dBi
垂直波束宽度 Vertical Beam-Width	75Deg
水平波束宽度 Horizontal Beam-Width	360Deg
连接器型号 Connector Type	N male connector( <b>customized</b> )
线长(Cable Length)	1 meter( <b>customized</b> )
固定方式(Mount type)	Pole Mount/Wall Mount
工作温度 (Operating Temperature)	-40 $^{\circ}$ C ~+60 $^{\circ}$ C
贮藏温度 (Storing Temperature)	-40 $^{\circ}$ C ~+85 $^{\circ}$ C
内部材料 (Internal material)	Copper
尺寸 Dimension (mm)	300mm-20mm
防护等级 (waterproof level)	IP68
防风抗 Rated Wind Velocity	60m/s

2.产品图片 (Product pictures)



Low Loss Cable

N male plug to N male plug



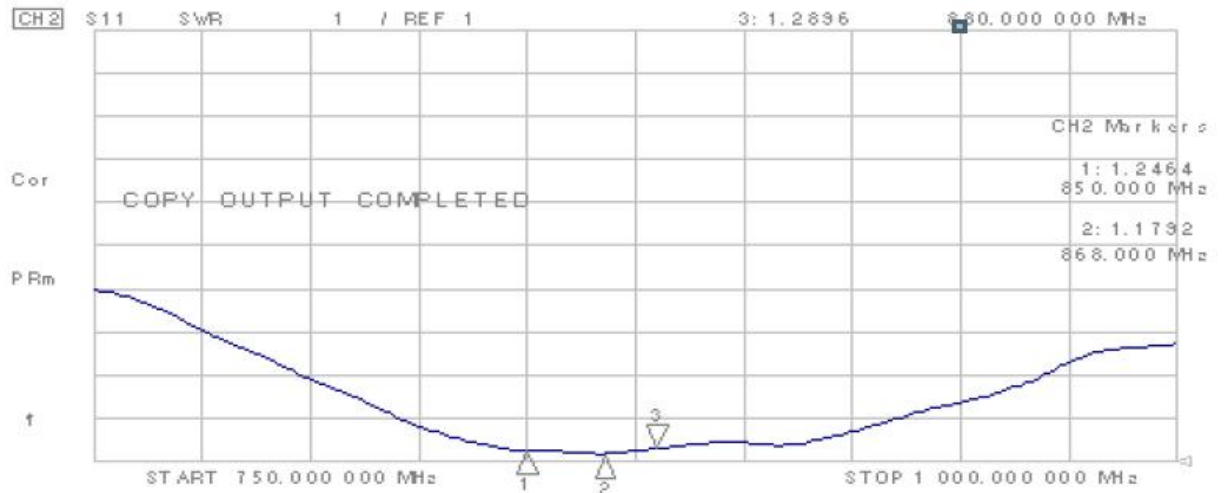
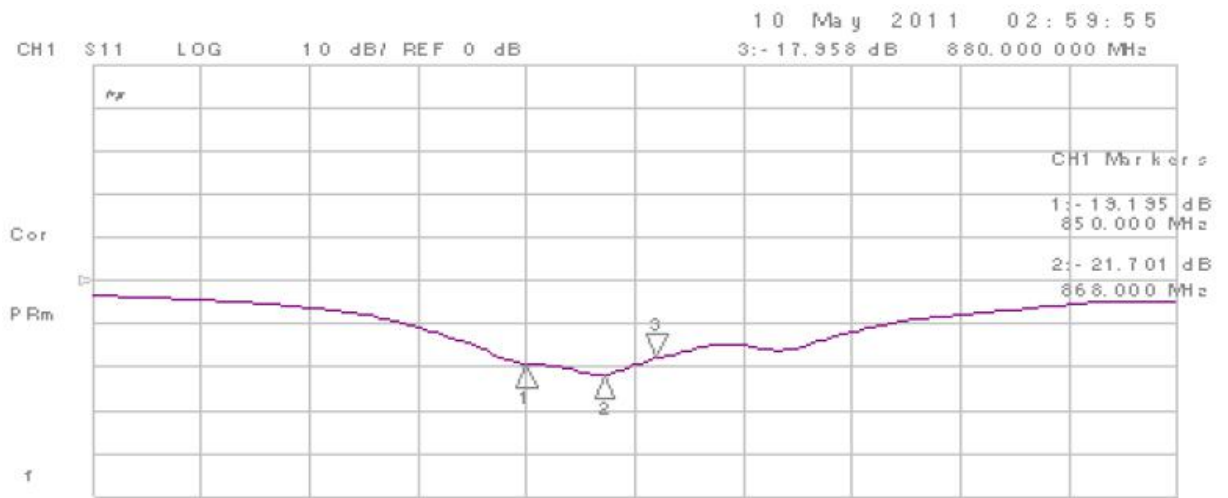
3、电气特性(ELECTRIC APPLIANCE CHARACTERISTICS)

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.	
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.	
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.	
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.	

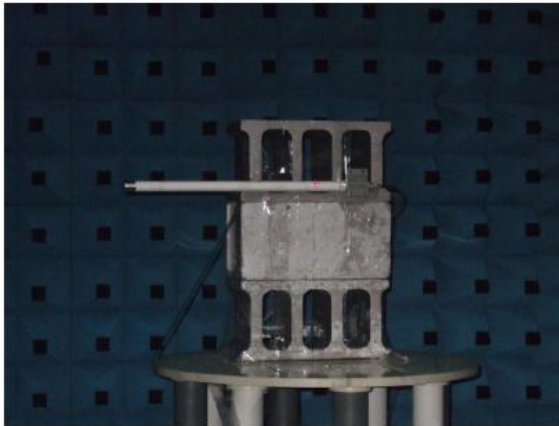
4、耐久性测试 (DURABILITY)

1	<p>盐雾试验 SAIT SPRAY TEST</p>	<p>盐水喷雾试验: 依 GB1266-86 标准 蒸馏水: 一次蒸馏 PH6.5~7 喷雾量: 1.4me80cm<sup>2</sup> /h 压缩空气压力: 1Kgf/ cm<sup>2</sup> 试验相对度: 98° 温度: 45° ~47° 压力温度: 35° 测试时间: 96hr</p>	<p>所有规格变华范围初始值 30% All characteristic range is 30% of the initial value</p>
2	<p>高温试验 HEAT TEST</p>	<p>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 30mim the to test.</p>	
3	<p>温试验 HUMIDITY TEST</p>	<p>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 30mim the to test.</p>	
4	<p>底温试验 COLD TEST</p>	<p>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 30mim the to test.</p>	

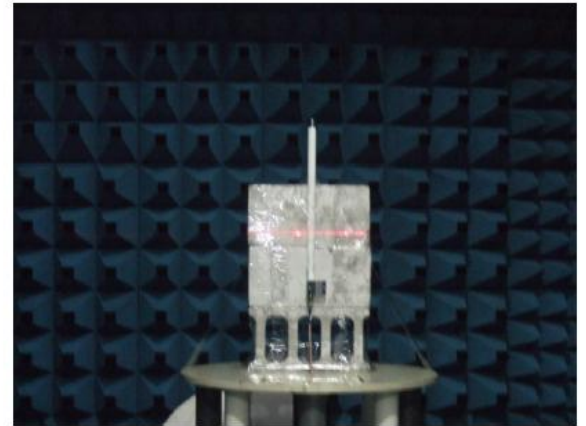
5、测试结果(Testing report)



Vertical Pattern Photos



Horizontal Pattern Photos

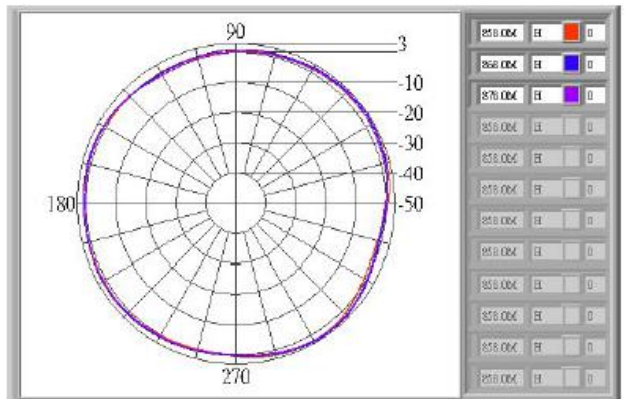
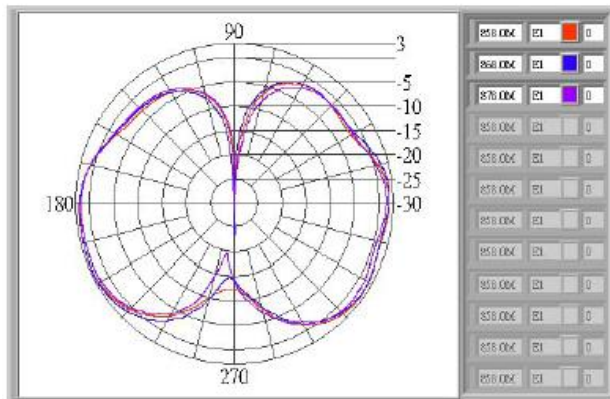


Vertical Pattern

E-plane co-pol ----- 3-dB beam-width=75 Deg

Horizontal Pattern

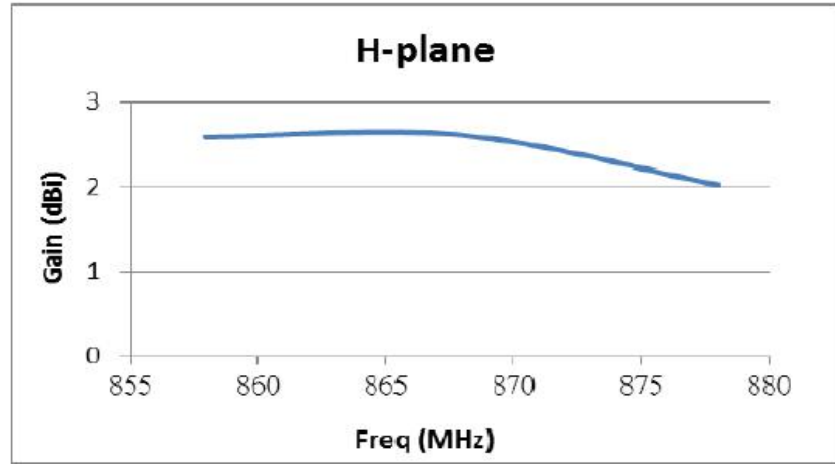
H-plane co-pol ----- 3-dB beam-width=360 Deg



## Antenna Gain Curve

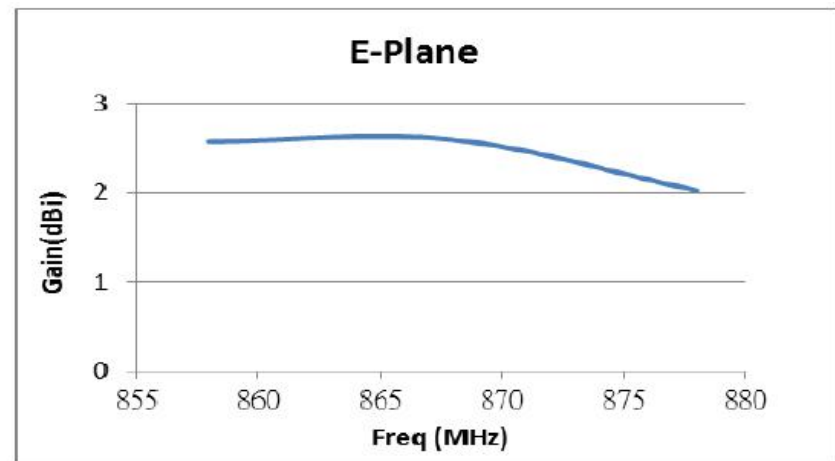
H-plane

MHz	dBi
858	2.55
868	2.56
878	2.27
Average	2.41



E-Plane

MHz	dBi
858	2.59
868	2.61
878	2.03
Average	2.41

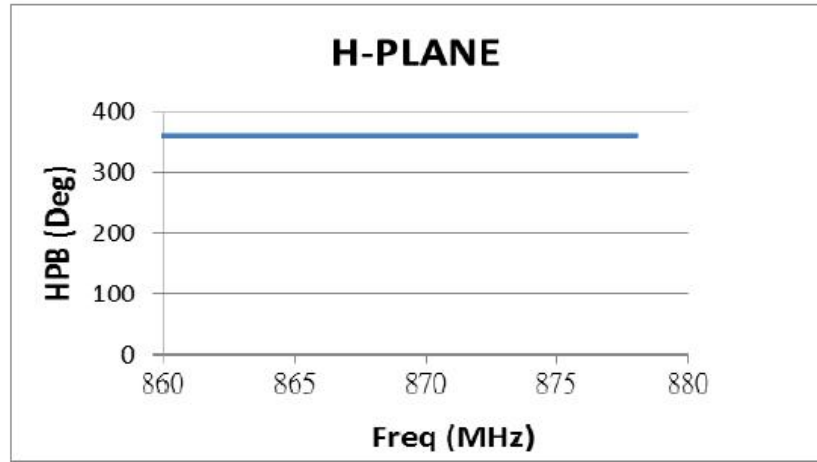




## Antenna -3dB Beam-width Curve

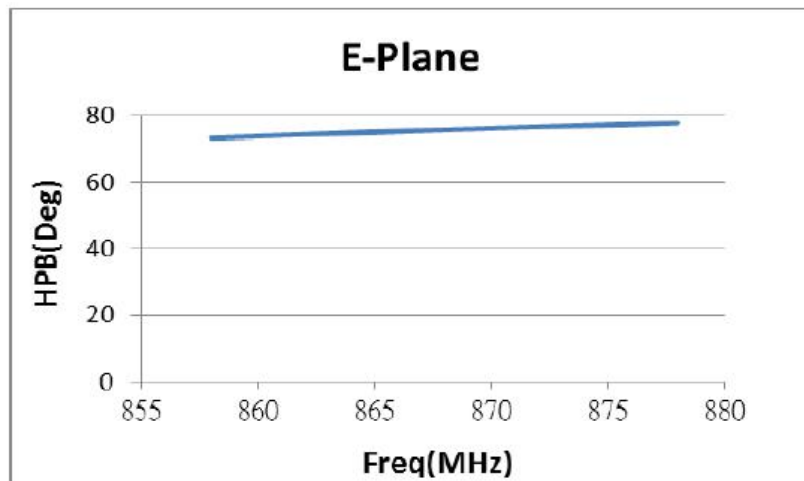
H-Plane

MHz	Deg
858	360
868	360
878	360
Average	360



E-Plane

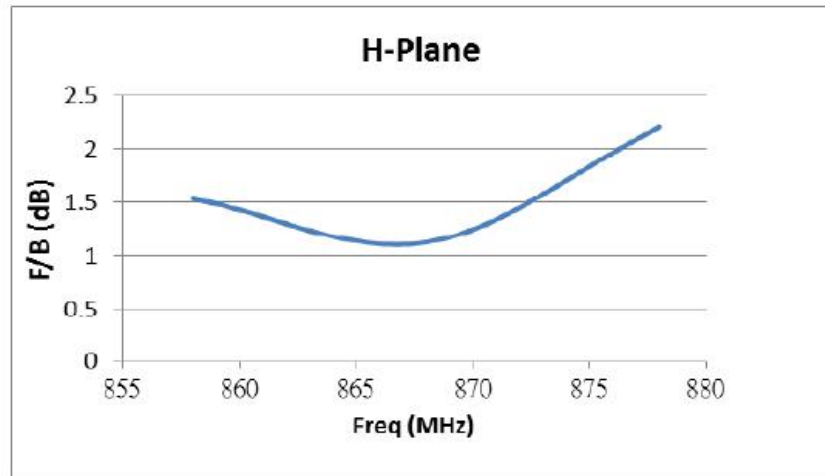
MHz	Deg
858	73.33
868	75.75
878	77.85
Average	75.64



## Antenna FBR Curve

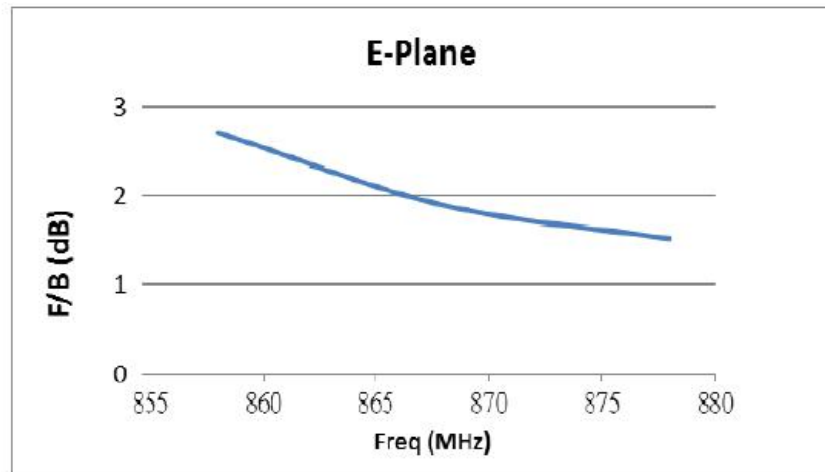
H-Plane

MHz	dB
858	1.53
868	1.12
878	2.2
Average	1.62



E-Plane

MHz	dB
858	2.71
868	1.89
878	1.52
Average	2.04



6. 包装(Packing)

