



规格书 Specification

客户名称:

CUSTOMER: 锐捷网络股份有限公司

客户料号:

CUSTOMER P/N:

客户品名:

DESCRIPTION:

捷雷料号:

P/N:

C168-JL-3917

捷雷品名:

PART NO:

5.8G 天线; L=190mm 1.13 黑色 V1.1

核准	审核	编制
Frank	WenSen	Sean
2019. 11. 20	2019. 11. 20	2019. 11. 20

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版本描述

日期	批准	版本	描述
2019-11-20		V1.0	初版



1. Electrical Performance

A.Electrical Characteristics	
S.W.R	$\leq 2.0@5150-5850\text{MHz}$
Frequency Range(MHz)	5150-5850MHz
Impedance	50 Ohm
Gain	MAX: 4.67dBi@5150-5850MHz
B.Material	
Connector	IPEX
Cable Length	190MM
Cable	1.13
C.Environmental	
Operation Temperature	-20°C~65°C
Storage Temperature	

2. Measurement Setup

(1) Reflection coefficient Measurement:

(a) **Instrument:** Network Analyzer

(b) Setup:

(I) Calibrate the Network Analyzer by one port calibration using Agilent calibration kits.

(II) Connect the antenna under test to the Network Analyzer

(III) Measure the S11 (reflection coefficient) shown in Fig.1

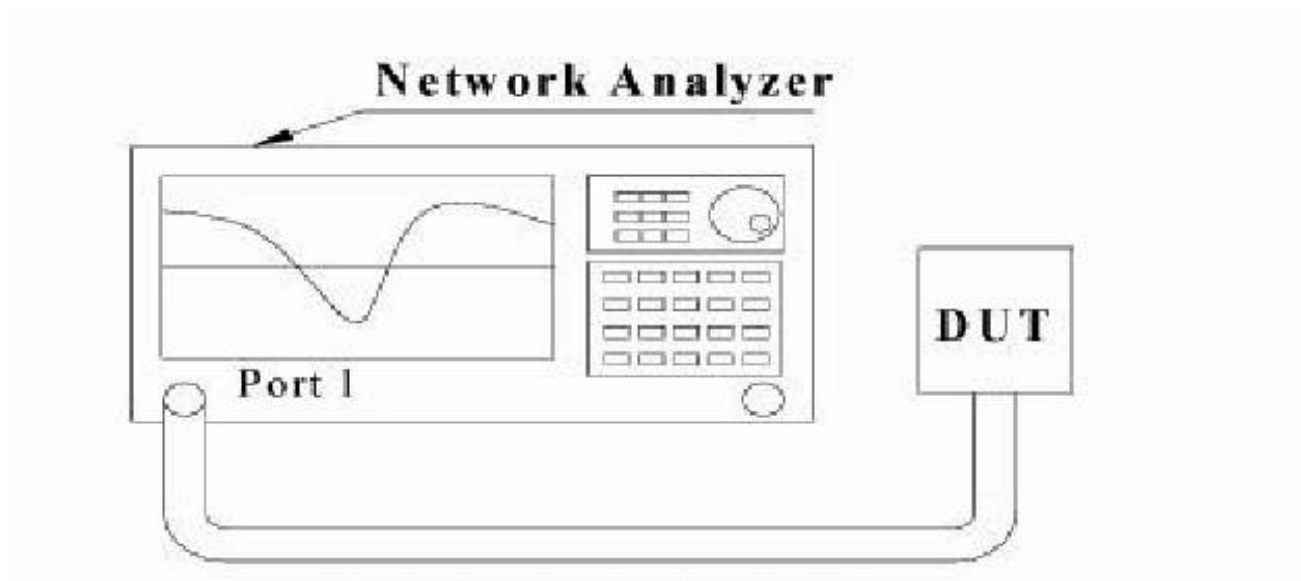


Fig. 1 Measure S11 on Network Analyze



2.1 测试设备

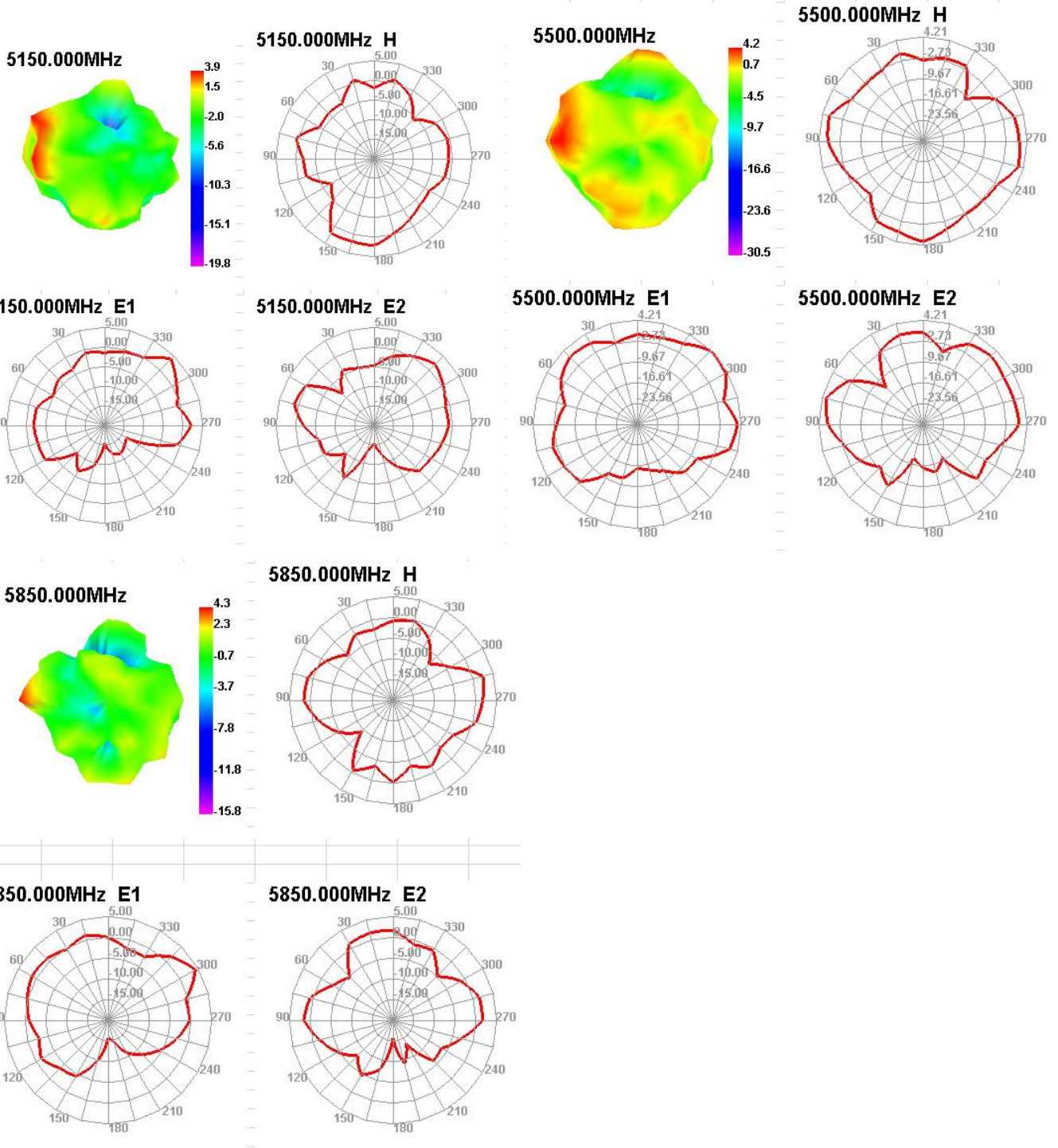
驻波测试设备

VSWR 是用安捷伦矢量网络分析仪 E5071C 测试的。被测物平稳地摆放在非导电且介电常数很小的材料上，或者悬空测试。

效率测试设备

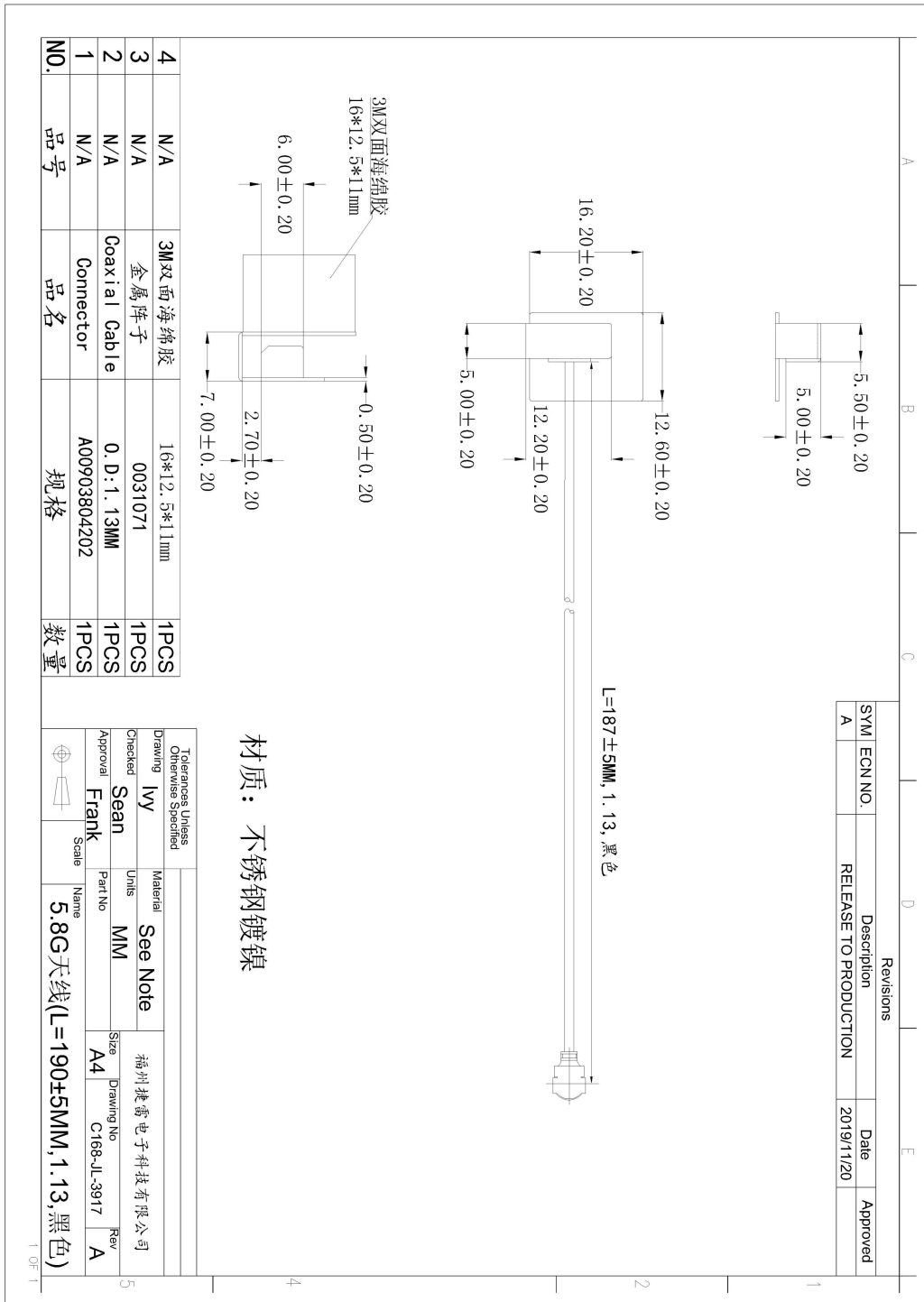
效率测试设备是由捷雷公司建立的暗室测试的。包括天线 3D 性能的有源和无源测试，符合 CTIA 标准的 OTA 性能测试 (TRP&TIS)。暗室外部结构尺寸 7m×5m×3 m (L×W×H)，可测试从 700MHz-6GHz 频率范围内的天线。测试时，待测试测试稳定的固定在转台上。

Freq (MHz)	Effi (%)	Max (dB)	Freq (MHz)	Effi (%)	Max (dB)	Freq (MHz)	Effi (%)	Max (dB)
5150	58.4	3.92	5390	57.05	3.84	5630	63.18	3.46
5160	56.59	3.93	5400	67.68	4.54	5640	62.79	3.26
5170	58.54	4.1	5410	65.46	4.43	5650	63.82	3.17
5180	58.9	4.03	5420	66.24	4.38	5660	64.42	3.09
5190	57.28	3.95	5430	67.24	4.32	5670	63.4	3.27
5200	56.15	3.92	5440	64	4.17	5680	62.85	3.2
5210	60.01	4.28	5450	64.66	4.2	5690	63.77	3.52
5220	59.07	4.3	5460	67.18	4.26	5700	64.25	3.68
5230	63.33	4.65	5470	66.29	4.4	5710	64.45	3.79
5240	59.9	4.41	5480	65.06	4.4	5720	64.3	3.92
5250	58.1	4.34	5490	64.47	4.43	5730	65.44	4.1
5260	58.23	4.35	5500	63.72	4.21	5740	67.98	4.27
5270	59.95	4.6	5510	63.41	4.34	5750	65.94	4.21
5280	59.98	4.51	5520	63.82	4.41	5760	65.1	4.15
5290	60.11	4.36	5530	64.47	4.47	5770	65.72	4.28
5300	57.1	4.24	5540	63.54	4.46	5780	67.54	4.26
5310	58.69	4.25	5550	63.76	4.44	5790	66.04	4.16
5320	60.68	4.39	5560	64.57	4.3	5800	64.9	4.39
5330	59.22	4.2	5570	63.29	4.01	5810	65.79	4.33
5340	61.9	4.35	5580	63.96	4	5820	67.99	4.67
5350	63.31	4.37	5590	62.54	3.58	5830	66.82	4.45
5360	60.32	4.37	5600	62.5	3.79	5840	65.1	4.26
5370	60.02	4.23	5610	62.52	3.48	5850	64.44	4.31
5380	60.65	4.22	5620	63.72	3.48			





3. Mechanical Dimension Drawing





福州捷雷电子科技有限公司

Fuzhou JieLei Electronic Technology Co.,Ltd.

文档编码: FRKF-0007 版本: 1.1

型号 Type	RF-1.13/50	料号 P/N	SY113/50-001(Black)	
结构图 Structure drawing				
结构特性 Structure characteristics				
结构 Structure	项目 Item	标准值 Standard value		
①内导体 Inner conductor	材料 Material	镀银铜线 Silverplated copper wire		
	组成-总根数/单根外径(mm) Makeup/total / O.D. of every wire(mm)	7/0.08		
	(绞合)标称外径(mm) (Interwist)NOM.O.D.(mm)	0.24±0.02		
②绝缘层 Insulation	材料 Material	聚全氯乙烯 FEP		
	颜色 Color	透明 Clarity		
	标称外径(mm) NOM.O.D.(mm)	0.7±0.03		
③外导体 Outer conductor	材料 Material	镀锡铜线 Tinned copper wire		
	组成-总根数/单根外径(mm) Makeup/total / O.D. of every wire(mm)	4/0.05		
	标称外径(mm) NOM.O.D.(mm)	0.92±0.05		
	覆盖率(%) Coverage ratio(%)	90±5		
	材料 Material	聚全氯乙烯 FEP		
④护套层 Jacket	颜色 Color	黑 Black		
	标称外径(mm) NOM.O.D.(mm)	1.13±0.05		
	材料 Material	聚全氯乙烯 FEP		
电性能特性 Electrical characteristics				
项目 Item	标准值 Standard value	项目 Item	频率 Frequency	标准值 Standard value 单位 Unit: dB/m
电容(pF/m) Capacitance(pF/m)	98	衰减 Attenuation	1GHz	≤2.2
速率(%) Velocity(%)	70		2GHz	≤3.1
阻抗(Ω) Impedance(Ω)	50±2		3GHz	≤3.8
驻波比 Standing wave ratio	≤1.3@0-6GHz		4GHz	≤4.4
最大工作电压(V) Max.operating voltage(V)	1000		5GHz	≤4.9
最大工作频率(GHz) Max.operating frequency(GHz)	6		6GHz	≤5.4
可靠性 Dependability				
项目 Item	单位 Unit	标准值 Standard value		
最小弯曲半径(一次) Min.bending radius static	mm	4		
最小弯曲半径(重复) Min.bending radius repeated	mm	—		
工作温度范围 Operating temperature	℃	-55→+200		
包装 Packing				
项目 Item	单位 Unit	标准值 Standard value		
包装方式 Packing mode	/	纸盘 Paperly plate		
每盘长度 The length of each plate	m	500		
每盘接头数 Each connector plate number	/	≤3		
每段最短长度 The shortest length of each root	m	≥10		
使用提示 Use tips				
存储环境 Storage environment	温度: 30℃以下; 湿度: 20%~65%			
最佳保存周期 The best save cycle	2个月, 2个月以上作业性下降, 如上锡效果变差, 但电性能不受影响, 夏季高温高湿环境开剥后需尽快流转			
加工温度 Processing temperature	260℃的极限情况下, 可短时间承受; 300℃以上分子通常有等的等端基会分解; 400℃以上发生显著的热分解			
氟塑料收缩 Teflon Shrink	固有材料特性, 绝缘: 0.2mm以下; 护套: 0.3mm以下			
护套窜动 Jacket traverse	加工长度(护套残留长度)低于5cm易发生			
其他 Other				
特殊加工工艺, 请与供方协商后使用				