SNA6000A 系列 矢量网络分析仪



数据手册

DS09060_C05A



深圳市駅阳科技股份有限公司 SIGLENT TECHNOLOGIES CO.LTD

SNA6000A:

6154A、6152A、6144A、6142A 6134A、6132A、6124A、6122A 6034A、6032A、6024A、6022A

1 产品综述

SNA6000A 系列矢量网络分析仪,测量频率范围涵盖 100 kHz-50 GHz, 支持 4 端口 S 参数测量, 差分(平衡)测量, 时域测量, 滤波器插入损耗、带宽、Q 值等一键测量, 支持端口阻抗转换、端口扩展功能, 支持极限测试、纹波测试功能, 支持夹具仿真和去嵌入功能, 支持线性频率扫描、对数频率扫描、分段频率扫描、线性功率扫描方式, 支持 SOLT、SOLR、TRL、Response、Enhanced Response等完备的校准方法,可满足研发, 生产等各种环境下的应用。

2 指标特色

№ 频率范围: 100 kHz- 50 GHz

₩ 频率分辨率: 1 Hz

昼 幅度分辨率: 0.05 dB

№ 中频带宽范围: 1 Hz~10 MHz

√ 輸出功率设置范围: -60 dBm ~ +20 dBm

校准类型:响应校准,增强响应校准, 单端口校准,全二端口校准,TRL校准

》 测量分析类型: S 参数测量,差分(平衡)测量,接收机测量,时域分析、极限测试、纹波测试、带宽分析、阻抗转换、端口匹配、去嵌功能、频谱分析功能、频偏功能、标量混频器测量、矢量混频测量、脉冲测量、材料测量等

▼ 支持直流偏置功能

通信接口: LAN, USB Device, USB Host (USB-GPIB)

远程控制: SCPI/ Labview/ IVI based
 on USB-TMC/ VXI-11/ Socket/ Telnet/
 Webserver

触摸控制: Multi Touch, Mouse, Keyboard

₩ 屏幕尺寸: 12.1 英寸

√ 视频输出: HDMI/DVI-D/DP



3 型号说明

型号	SNA6154A SNA6152A	SNA6144A SNA6142A	SNA6034A SNA6134A SNA6032A SNA6132A	SNA6024A SNA6124A SNA6022A SNA6122A
输出频率范围	100 kHz- 50 GHz	100 kHz- 44 GHz	100 kHz- 26.5 GHz	100 kHz- 13.5 GHz
端口数	2/4	2/4	2/4	2/4
频率分辨率			1Hz	
幅度分辨率		0.	05dB	
中频带宽范围		1 Hz-	~10 MHz	
点数		2 to	100,001	
输出功率设置范围		-60 dBm	~ +20 dBm	
动态范围	135dB			
校准类型	响应校准,增强响应校准,单端口校准,全二端口校准,TRL 校准			
测量分析类型	S 参数测量,差分(平衡)测量,接收机测量,时域分析、TDR、极限测试、 纹波测试、带宽分析、阻抗转换、端口匹配、去嵌功能、频谱分析功能、 频偏功能、标量混频器测量、矢量混频测量、脉冲测量、材料测量、 增益压缩测量等			
直流偏置功能	支持			
通信接口	LAN, USB Device	LAN, USB Device, USB Host (USB-GPIB)		
远程控制	SCPI/Labview/IVI based on USB-TMC/VXI-11/Socket/Telnet/WebServer			
屏幕尺寸	12.1 英寸			
视频输出	HDMI/DVI-D/DP			



4 设计特色

多窗口显示功能, S 参数一览无余:



多种数据显示格式,观察角度众多:





数据存入内存功能,便于当前数据和历史数据进行对比:



HOLD 保持功能,方便细究测试参数:

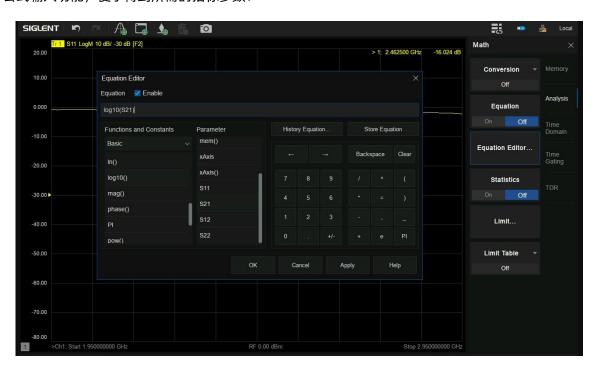




阻抗转换和匹配功能:

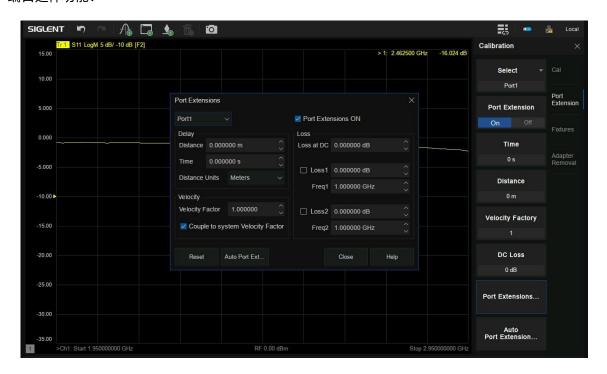


公式输入功能,便于得到所需的指标参数:

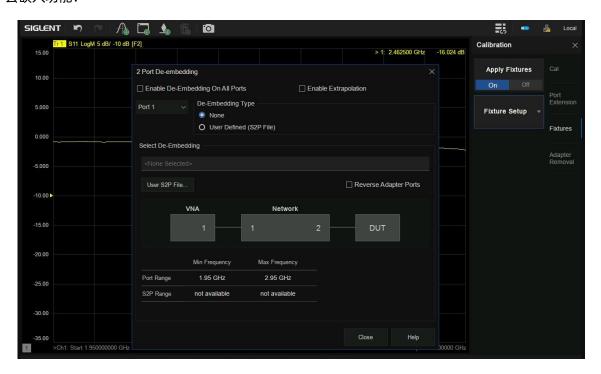




端口延伸功能:

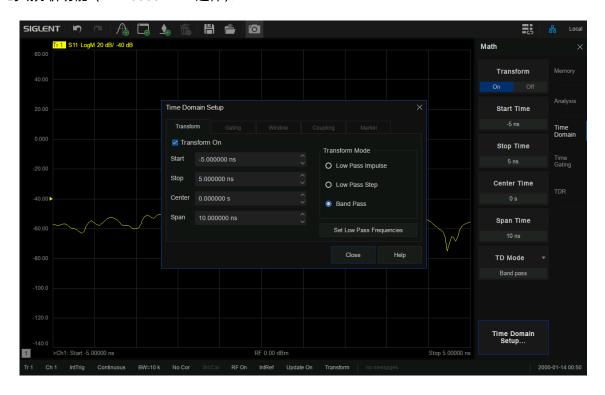


去嵌入功能:





时域分析功能 (SNA6000-TDA 选件):

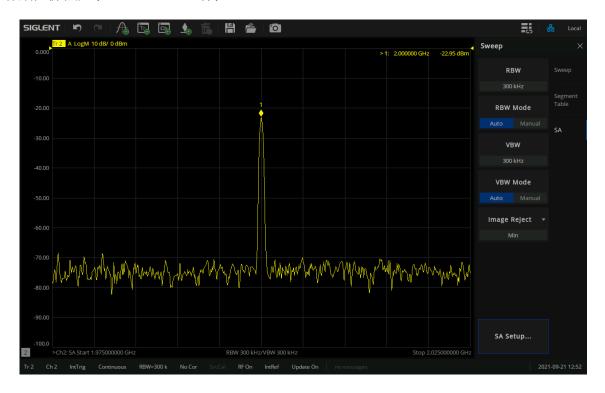


增强时域分析功能 TDR (SNA6000-TDR 选件):

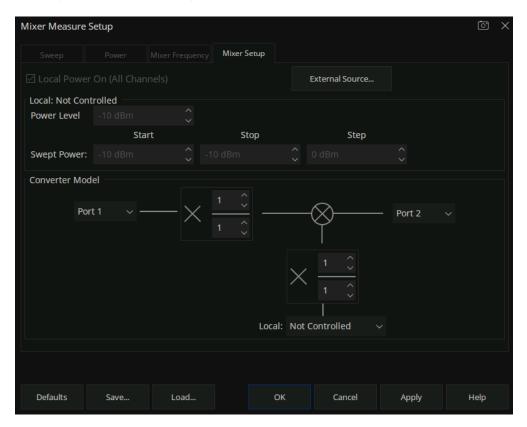




频谱分析功能 (SNA6000-SA 选件):

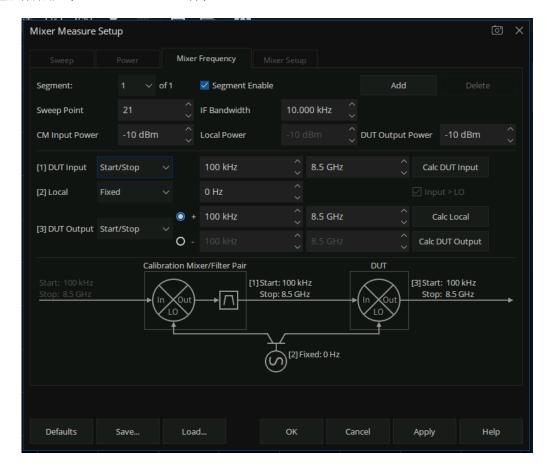


标量混频功能 (SNA6000-SMM 选件):

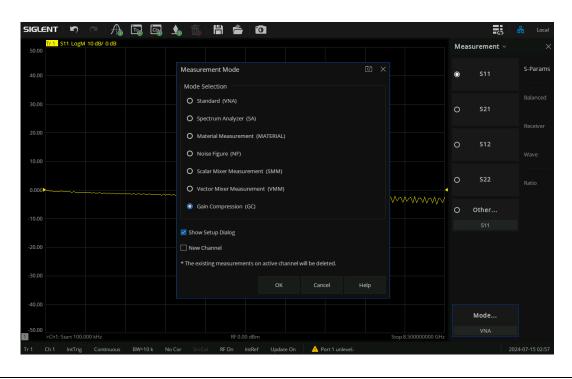




矢量混频功能 (SNA6000-VMM 选件):

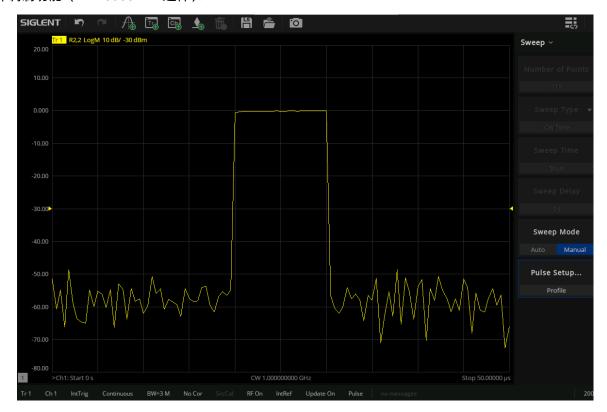


增益压缩测量功能 (SNA6000-GC 选件):



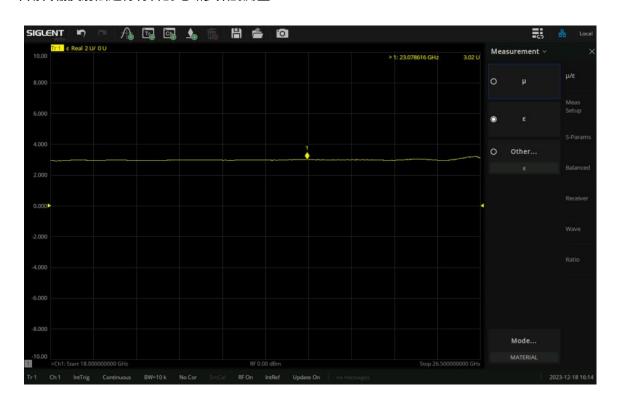


脉冲调制功能 (SNA6000-PM 选件):



材料测量功能 (SNA6000-MT 选件):

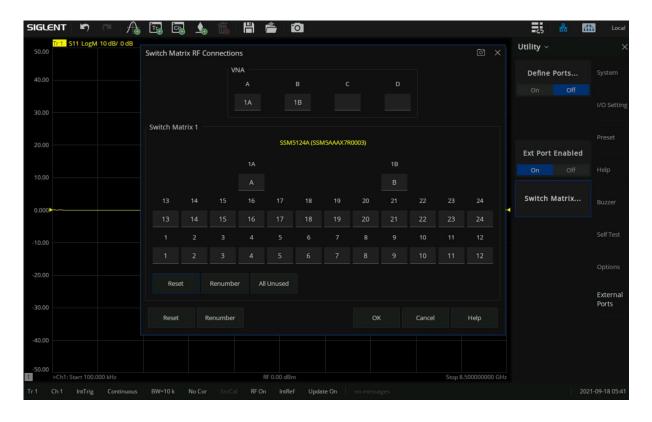
采用传输反射法进行材料的电磁参数的测量





支持开关矩阵扩展多端口测量功能:

通过控制 SSM5000A 系列的开关矩阵,实现多端口的 S 参数测量





5 条件定义

本规格适用条件为仪器处于校准周期内,在室内温度环境下存放至少两小时,并且预热 90 分钟。对于本手册中的数据,若无另行说明,均为包含测量不确定度的技术指标。

技术指标:表示产品保证的参数性能,适用于常温环境温度范围,除非另作说明。

典型值:表示在室温(约25℃)条件下,80%的测试结果均可达到的典型性能,置信度95%。该数据并非保证数据,并且不包含测量的不确定度。

标称值:表示预期的平均性能或设计的性能特征,如 50Ω连接器。该数据并非保证数据,并且是在室温(约 25℃)条件下测量所得,并且不包含测量的不确定度。

6 指标参数

6.1 系统动态范围

SNA6034A/SNA6134A/SNA6032A/SNA6132A/SNA6024A/SNA6124A/SNA6022A/SNA6122A

频段	中频带宽	技术指标(dB)
100 kHz- 1 MHz		120
1 MHz- 500 MHz		125
500 MHz- 1 GHz	1011	130
1 GHz- 20 GHz	10Hz	135
20 GHz- 24 GHz		127
24 GHz- 26.5 GHz		120

频段	中频带宽	技术指标(dB)
100 kHz- 10 MHz		117
10 MHz- 500 MHz		118
500 MHz- 7.8 GHz	10Hz	129
7.8 GHz- 13.5 GHz		134
13.5 GHz- 20 GHz		127



20 GHz- 33 GHz	129
33 GHz- 40 GHz	123
40 GHz- 44 GHz	120
44 GHz- 50 GHz	113

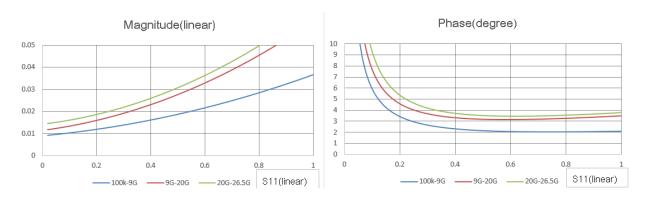


6.2 用户校准后的系统性能

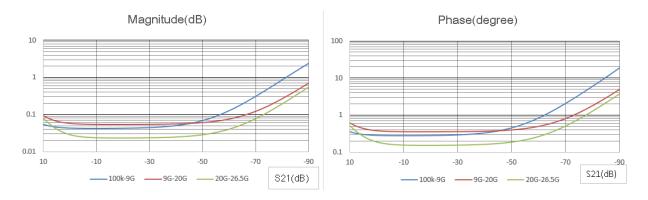
用户校准开启,系统校准开启;采用 Keysight 85052D 机械校准件(3.5mm,50Ω)进行全端口校准(包含隔离校准);中频带宽为 10 Hz,数据不进行平均;测试环境和校准环境温差小于 1℃。 SNA6034A/SNA6134A/SNA6032A/SNA6132A/SNA6024A/SNA6124A/SNA6022A/SNA6122A

技术指标(dB)	100 kHz-9 GHz	9 GHz-20 GHz	20 GHz-26.5 GHz
残余定向性误差	41	36	35
残余源匹配误差	36	29	27
残余负载匹配误差	41	36	33
残余反射跟踪误差	±0.004	±0.003	±0.01
残余传输跟踪误差	±0.06	±0.09	±0.5

反射不确定度 (功率: -10 dBm, IFBW: 10 Hz):



传输不确定度 (功率: -10 dBm, IFBW: 10 Hz):

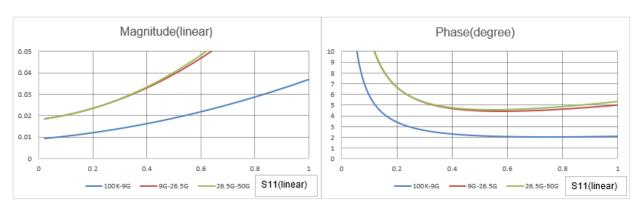




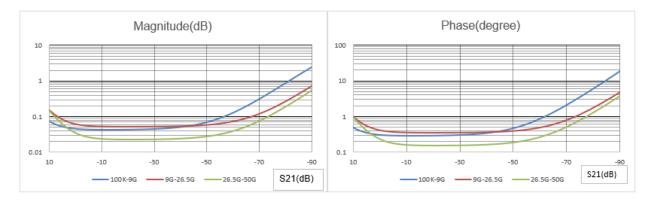
SNA6154A/ SNA6152A/ SNA6144A/SNA6142A

技术指标(dB)	100 kHz-7.8 GHz	7.8 GHz -20 GHz	20 GHz -50 GHz
残余定向性误差	41	35	35
残余源匹配误差	36	26	25
残余负载匹配误差	34	33	32
残余反射跟踪误差	±0.08	±0.04	±0.06
残余传输跟踪误差	±0.15	±0.08	±0.13

反射不确定度 (功率: -10 dBm, IFBW: 10 Hz):



传输不确定度 (功率: -10 dBm, IFBW: 10 Hz):





6.3 未进行用户校准的系统性能

用户校准关闭,系统校准开启;中频带宽为 10 Hz,数据不进行平均。

SNA6034A/SNA6134A/SNA6032A/SNA6132A/SNA6024A/SNA6124A/SNA6022A/SNA6122A

技术指标(dB)	100 kHz-1 GHz	1 GHz-9 GHz	9 GHz-20 GHz	20 GHz-26.5 GHz
残余定向性误差	20	20	16	13
残余源匹配误差	20	20	16	13
残余负载匹配误差	8	11	7	7
残余反射跟踪误差	±1.4	±1.4	±1	±1
残余传输跟踪误差	±1.4	±1.4	±1	±1

技术指标(dB)	100 kHz-7.8GHz	7.8 GHz-20 GHz	20 GHz-44 GHz	44 GHz-50 GHz
残余定向性误差	20	16	13	15
残余源匹配误差	20	16	13	15
残余负载匹配误差	11	9	7	8
残余反射跟踪误差	±1.4	±1	±1	±1.5
残余传输跟踪误差	±1.4	±1	±1	±1.5



6.4 测试端口输出(发射机)

6.4.1 测试端口输出频率

说明	·····································
频率范围	
SNA6154A/ SNA6152A	100 kHz to 50 GHz
SNA6144A/ SNA6142A	100 kHz to 44 GHz
SNA6034A/ SNA6032A/	400 kHz 45 20 5 CHz
SNA6134A/ SNA6132A	100 kHz to 26.5 GHz
SNA6024A/ SNA6022A/	100 kHz to 13.5 GHz
SNA6124A/ SNA6122A	100 KHZ to 13.5 GHZ
频率分辨率	
100 kHz - 250 MHz	1 mHz
250 MHz - 450 MHz	0.1 Hz
450 MHz – 1.5 GHz	0.5 Hz
1.5 GHz – 3.8 GHz	1 Hz
3.8 GHz – 7.8 GHz	2 Hz
7.8 GHz – 13.5 GHz	4 Hz
13.5 GHz – 26.5 GHz	8 Hz
26.5 GHz – 50 GHz	16 Hz
连续波精度	
标准配置	± 1.0 ppm (23 ± 3 °C)
选件SNA6000-HPR	± 0.1 ppm (23 ± 3 °C)
源稳定性	
七火五字	± 1.0 ppm (0 to 40 °C)
标准配置 	± 0.5 ppm/year, ± 3.0 ppm/20 year
选件SNA6000-HPR	± 1 ppb (0 to 40 °C), ± 50 ppb/year



6.4.2 测试端口输出功率

SNA6034A/SNA6134A/SNA6032A/SNA6132A/SNA6024A/SNA6124A/SNA6022A/SNA6122A

说明	
预设功率(Preset power)	0 dBm
功率精度	
100 kHz - 10 MHz	±2.0 dB@0 dBm
10 MHz - 20 GHz	±1.5 dB@0 dBm
20 GHz- 26.5 GHz	±2.0 dB@0 dBm
功率线性度	
100 kHz- 1 MHz	±0.5 dB (-20 dBm to 10 dBm)
1 MHz- 500 MHz	±0.5 dB (-20 dBm to 10 dBm)
500 MHz- 1 GHz	±0.5 dB (-20 dBm to 10 dBm)
1 GHz- 20 GHz	±0.5 dB (-20 dBm to 10 dBm)
20 GHz- 24 GHz	±0.5 dB (-20 dBm to 7 dBm)
24 GHz- 26.5 GHz	±0.5 dB (-20 dBm to 5 dBm)
输出功率设置范围1	
100 kHz- 26.5 GHz	-60 dBm to 20 dBm
功率扫描范围	
100 kHz- 1 MHz	-55 dBm to 10 dBm
1 MHz- 500 MHz	-55 dBm to 10 dBm
500 MHz- 1 GHz	-55 dBm to 10 dBm
1 GHz- 20 GHz	-55 dBm to 10 dBm
20 GHz- 24 GHz	-55 dBm to 7 dBm
24 GHz- 26.5 GHz	-55 dBm to 5 dBm
最大输出功率	
100 kHz- 1 MHz	10 dBm
1 MHz- 500 MHz	10 dBm
500 MHz- 1 GHz	10 dBm
1 GHz- 20 GHz	10 dBm
20 GHz- 24 GHz	7 dBm
24 GHz- 26.5 GHz	5 dBm
功率分辨率	0.05 dB

¹固件 V2.13 及以后版本支持



SNA6154A/SNA6152A/SNA6144A/SNA6142A

说明	·····································
预设功率(Preset power)	-10 dBm
	±2.0 dB@-10 dBm, 100 KHz- 20 GHz
功率精度 	±2.5 dB@-10 dBm, 20 GHz- 50 GHz
功率线性度	
100 kHz- 10 MHz	±0.5 dB (-20 dBm to 0 dBm)
10 MHz- 9 GHz	±0.5 dB (-20 dBm to 0 dBm)
9 GHz- 20 GHz	±0.5 dB (-20 dBm to 0 dBm)
20 GHz- 30 GHz	±0.5 dB (-20 dBm to 0 dBm)
30 GHz- 44 GHz	±0.5 dB (-20 dBm to 0 dBm)
44 GHz- 50 GHz	±0.5 dB (-20 dBm to 0 dBm)
输出功率设置范围	
100 kHz- 50 GHz	-60 dBm to 20 dBm
功率扫描范围	
100 kHz- 1 MHz	-55 dBm to 0 dBm
1 MHz – 13.5 GHz	-55 dBm to 10 dBm
13.5 GHz- 20 GHz	-55 dBm to 8 dBm
20 GHz- 33 GHz	-55 dBm to 7 dBm
33 GHz- 44 GHz	-55 dBm to 7 dBm
44 GHz- 50 GHz	-55 dBm to 5 dBm
最大输出功率	
100 kHz- 1 MHz	0 dBm
1 MHz – 13.5 GHz	10 dBm
13.5 GHz- 20 GHz	8 dBm
20 GHz- 33 GHz	7 dBm
33 GHz- 44 GHz	7 dBm
44 GHz- 50 GHz	5 dBm
功率分辨率	0.05 dB

6.4.3 测试端口输出信号纯度

说明	技术指标
二次或三次谐波(输出0 dBm)	
100 kHz to 10 MHz	<-20 dBc



非谐波杂散(输出0 dBm)	<-30 dBc
26.5 GHz to 50 GHz	<-23 dBc
10 MHz to 26.5 GHz	<–25 dBc



6.5 测试端口输入(接收机)

6.5.1 测试端口输入功率

SNA6034A/SNA6134A/SNA6032A/SNA6132A/SNA6024A/SNA6124A/SNA6022A/SNA6122A

说明	技术指标	典型值
最大輸入功率		
100 kHz-26.5 GHz	+10 dBm	
输入损坏功率		
100 kHz-26.5 GHz	+27 dBm(RF) or 35 V(DC)	
接收机功率精度		
100 kHz - 10 MHz	±2.5 dB@0 dBm	
10 MHz - 20 GHz	±1.5 dB@0 dBm	
20 GHz- 26.5 GHz	±2.0 dB@0 dBm	
串扰		
100 kHz- 500 kHz	-95 dB	
500 kHz- 5 MHz	-110 dB	
5 MHz- 13.5 GHz	-120 dB	
13.5 GHz- 26.5 GHz	-108 dB	
底噪		
100 kHz- 500 MHz	-115 dBm/Hz	
500 MHz- 1 GHz	-125 dBm/Hz	
1 GHz- 8 GHz	-130 dBm/Hz	
8 GHz- 20 GHz	-135 dBm/Hz	
20 GHz- 26.5 GHz	-130 dBm/Hz	
压缩电平(10 dBm最大输入功率)		
幅度		
100 kHz- 13.5 GHz	0.5 dB	0.3 dB
13.5 GHz- 26.5 GHz	1.0 dB	0.5 dB
相位		
100 kHz- 13.5 GHz	5 deg	1 deg
13.5 GHz- 26.5 GHz	5 deg	1.5 deg



说明	技术指标		
最大输入功率			
100 kHz-50 GHz	+10 dBm		
输入损坏功率			
100 kHz-50 GHz	+27 dBm(RF) or 35 V(DC)		
接收机功率精度			
100 kHz - 10 MHz	±2.5 dB@0 dBm		
10 MHz - 20 GHz	±1.5 dB@0 dBm		
20 GHz- 44 GHz	±2.0 dB@0 dBm		
44 GHz- 50 GHz	±2.5 dB@0 dBm		
串扰			
100 kHz- 100 MHz	-119 dB		
100 MHz- 7.8 GHz	-123 dB		
7.8 GHz- 20 GHz	-125 dB		
20 GHz- 33 GHz	-124 dB		
33 GHz- 44 GHz	-118 dB		
44 GHz- 50 GHz	-115 dB		
底噪			
100 kHz- 100 MHz	-117 dBm/Hz		
100 MHz- 7.8 GHz	-129 dBm/Hz		
7.8 GHz- 20 GHz	-133 dBm/Hz		
20 GHz- 33 GHz	-130 dBm/Hz		
33 GHz- 44 GHz	-127 dBm/Hz		
44 GHz- 50 GHz	-121 dBm/Hz		
压缩电平(10 dBm最大输入功率)			
幅度			
100 kHz- 13.5 GHz	0.5 dB	0.3 dB	
13.5 GHz- 30 GHz	1.0 dB	0.5 dB	
30 GHz- 50 GHz	1.0 dB	1.0 dB	
相位			
100 kHz- 13.5 GHz	5 deg	1 deg	
13.5 GHz- 30 GHz	5 deg	1.5 deg	
30 GHz- 50 GHz	8 deg	2.0 deg	



6.5.2 迹线噪声

SNA6034A/SNA6134A/SNA6032A/SNA6132A/SNA6024A/SNA6124A/SNA6022A/SNA6122A

说明	技术指标	
注: 设置最大输出功率		
传输/反射迹线噪声幅度		
100 kHz- 10 MHz (IFBW=10 Hz)	0.005 dB rms	
10 MHz- 13.5 GHz (IFBW=10 kHz)	0.009 dB rms	
13.5 GHz- 26.5 GHz (IFBW=10 kHz)	0.015 dB rms	
传输/反射迹线噪声相位		
100 kHz- 10 MHz (IFBW=10 Hz)	0.012 deg rms	
0 MHz- 13.5 GHz (IFBW=10 kHz)	0.05 deg rms	
13.5 GHz- 26.5 GHz (IFBW=10 kHz)	0.05 deg rms	

说明	技术指标
注: 设置最大输出功率	
传输/反射迹线噪声幅度	
100 kHz- 10 MHz (IFBW=10 Hz)	0.005 dB rms
10 MHz- 9 GHz (IFBW=10 kHz)	0.009 dB rms
9 GHz- 20 GHz (IFBW=10 kHz)	0.015 dB rms
20 GHz- 30 GHz (IFBW=10 kHz)	0.017 dB rms
30 GHz- 44 GHz (IFBW=10 kHz)	0.020 dB rms
44 GHz- 50 GHz (IFBW=10 kHz)	0.025 dB rms
传输/反射迹线噪声相位	
100 kHz- 10 MHz (IFBW=10 Hz)	0.012 deg rms
10 MHz- 9 GHz (IFBW=10 kHz)	0.05 deg rms
9 GHz- 20 GHz (IFBW=10 kHz)	0.05 deg rms
20 GHz- 30 GHz (IFBW=10 kHz)	0.06 deg rms
30 GHz- 44 GHz (IFBW=10 kHz)	0.09 deg rms
44 GHz- 50 GHz (IFBW=10 kHz)	0.15 deg rms



6.5.3 温度系数

SNA6034A/SNA6134A/SNA6032A/SNA6132A/SNA6024A/SNA6124A/SNA6022A/SNA6122A

说明	技术指标	典型值
幅度		
100 kHz- 13.5 GHz		± 0.01 dB/°C
13.5 GHz- 26.5 GHz		± 0.05 dB/°C
相位		
100 kHz- 13.5 GHz		± 0.1 deg/°C
13.5 GHz- 26.5 GHz		± 0.9 deg/°C

说明	技术指标	典型值
幅度		
100 kHz- 13.5 GHz		± 0.01 dB/°C
13.5 GHz- 30 GHz		± 0.06 dB/°C
30 GHz- 50 GHz		± 0.15 dB/°C
相位		
100 kHz- 13.5 GHz		± 0.1 deg/°C
13.5 GHz- 30 GHz		± 1.1 deg/°C
30 GHz- 50 GHz		± 2.9 deg/°C



6.5.4 动态精度

SNA6034A/SNA6134A/SNA6032A/SNA6132A/SNA6024A/SNA6124A/SNA6022A/SNA6122A

说明	技术指标
参考-10 dBm输入功率	
幅度	
10 dBm	± 0.19 dB
-30 dBm	± 0.05 dB
-100 dBm	± 2.5 dB
相位	
10 dBm	± 4.5 deg
-30 dBm	± 0.25 deg
-100 dBm	± 16.5 deg

说明	技术指标
参考-10 dBm输入功率	
幅度	
10 dBm	± 0.19 dB
-30 dBm	± 0.09 dB
-100 dBm	± 3.5 dB
相位	
10 dBm	± 4.5 deg
-30 dBm	± 0.35 deg
-100 dBm	± 19.5 deg



6.6 射频脉冲

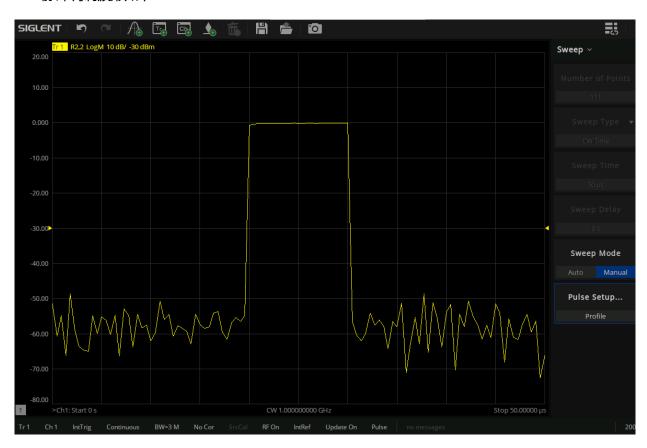
6.6.1 脉冲通断比 (dB)

说明	技术指标
100 kHz- 13.5 GHz	80
13.5 GHz- 26.5 GHz	70

6.6.2 脉冲调制

说明	技术指标
最新脉冲宽度	10 usec
最小脉冲周期	30 usec
最大脉冲周期	26 sec

脉冲调制波形如下





7 扫描时间

SNA6034A/SNA6134A/SNA6032A/SNA6132A/SNA6024A/SNA6124A/SNA6022A/SNA6122A

j	起始频率: 100 kHz,	终止频率:26.5 GHz	z; 中频带宽: 500 kH	z.
点数	201	401	1601	6401
未校准	30 ms	54 ms	70 ms	229 ms
2-port 校准	60 ms	108 ms	140 ms	458 ms
j	起始频率: 100 kHz,	终止频率: 26.5 GHz	z; 中频带宽: 100 kH	z.
点数	201	401	1601	6401
未校准	32 ms	57 ms	82 ms	275 ms
2-port 校准	34 ms	114 ms	164 ms	550 ms
	起始频率: 100 kHz,	终止频率: 26.5 GH	z; 中频带宽: 10 kHz	z.
点数	201	401	1601	6401
未校准	48 ms	89 ms	209 ms	784 ms
2-port 校准	96 ms	178 ms	418 ms	1568 ms
起始频率:100 kHz,终止频率:26.5 GHz:中频带宽:1 kHz.				
点数	201	401	1601	6401
未校准	208 ms	409 ms	1487 ms	5895 ms
2-port 校准	416 ms	818 ms	2974 ms	11790 ms

	起始频率: 100 kHz <i>,</i>	终止频率: 50 GHz;	: 中频带宽: 500 kHz	
点数	201	401	1601	6401
未校准	70 ms	95 ms	167 ms	329 ms
2-port 校准	140 ms	190 ms	334 ms	658 ms
点数	201	401	1601	6401
未校准	71 ms	98 ms	178 ms	375 ms
2-port 校准	142 ms	196 ms	356 ms	750 ms
点数	201	401	1601	6401
未校准	87 ms	130 ms	306 ms	884 ms
2-port 校准	174 ms	260 ms	612 ms	1768 ms



起始频率:100 kHz,终止频率:50 GHz:中频带宽:1 kHz.				
点数	201	401	1601	6401
未校准	248 ms	450 ms	1584 ms	5995 ms
2-port 校准	496 ms	900 ms	3202 ms	11990 ms



8 增强时域分析软件 TDR 选件 (SNA6000-TDR)

描述	SNA6022/4A SNA6122/4A	SNA6032/4A SNA6132/4A	SNA6142/4A	SNA6152/4A
带宽	13.5 GHz	26.5 GHz	44 GHz	50 GHz
输入阻抗		50) Ohm	
测试端口直流损坏电平	35 V			
测试端口最大电压		4	<i>5</i> \/p.=	
(Hot TDR Mode)	1.5Vpp			
TDR 激励方式	Step, Impulse			
TDR 阶跃幅度	1 mV to 5 V			
TDR 阶跃上升时间	22.4 no	16.0 %	10.4 no	0.1 no
(最小) (10% to 90%)	33.1 ps	16.9 ps	10.4 ps	9.1 ps
TDR 阶跃响应分辨率	Emana	2.5 mm	1.6 mm	1.3 mm
(最小)(εr = 1)	5 mm	2.5 11111	1.0 11111	1.3 11111
TDR 脉冲宽度(最小)	44.7 ps	22.8 ps	15.4 ps	13.1 ps
DUT 长度 (最大)	1.25 µs			
眼图数据速率 (最大)	10.8 Gb/s	21.2 Gb/s	35.2 Gb/s	42.4 Gb/s



9 噪声系数测量选件 (SNA6000-NF)

9.1 测量不确定度 (dB)

说明	技术指标	典型值
1 GHz- 20 GHz	0.7	0.4
20 GHz- 40 GHz	1	0.6

10 一般技术规格

说明	特性	
工作环境		
温度	0 to 40°C	
湿度	20 - 80 %,湿球温度< 29°C (无冷凝)	
海拔	0 to 3000 m	
存储环境		
温度	-20°C to 60°C	
湿度	20 - 90 %,湿球温度< 40°C (无冷凝)	
海拔	0 to 15000 m	
尺寸	W×H×D=426×251×494.5 mm	
重量	4端口19 kg	
电磁兼容		
传导骚扰: CISPR 11/EN 55011	CLASS A group 1, 150 kHz-30 MHz	
辐射骚扰: CISPR 11/EN 55011	CLASS A group 1, 30 MHz-1 GHz	
静电放电 (ESD): IEC 61000-4-2/EN 61000-4-2	4.0 kV (接触), 8.0 kV (空气)	
射频电磁场抗扰度:IEC 61000-4-3/EN 61000-4-3	10 V/m(80 MHz to 1 GHz);	
	3 V/m (1.4 GHz to 2 GHz);	
	1 V/m (2.0 GHz to 2.7GHz)	
电快速瞬变脉冲群 (EFT): IEC 61000-4-4/EN 61000-	2 kV(AC输入端口)	
4-4		
浪涌: IEC 61000-4-5/EN 61000-4-5	1 kV(火线到零线)	
	2 kV (火/零线到地)	
射频连续传导抗扰度: IEC 61000-4-6/EN 61000-4-6	3 V, 0.15-80 MHz	
电压暂降与短时中断:IEC 61000-4-11/EN 61000-4-11	电压暂降:	
	0% UT during 1 cycle;	



	40% UT during 10/12 cycles;
	70% UT during 25/30 cycles
	短时中断: 0% UT during 250 cycles
安全规范	
UL 61010-1:2012/R: 2018-11;	
CAN/CSA-C22.2 No. 61010-1:2012/A1:2018-11.	
UL 61010-2-030:2018;	
CAN/CSA-C22.2 No. 61010-2-030:2018.	

11 前面板信息

说明	特性	
射频连接器		
型号	3.5mm NMD (male), 50Ω(SNA6032/4A、SNA6132/4A、SNA6022/4A、 SNA6122/4A) 2.4mm NMD (male), 50Ω(SNA6152/4A、SNA6142/4A)	
前面板跳线	3.5mm 阴头, 50Ω (SNA6132/4A、SNA6122/4A) 2.4mm 阴头, 50Ω (SNA6152/4A 、SNA6142/4A)	
输入破坏电平	+27 dBm or ±35 VDC (warranted)	
显示屏幕 分辨率	12.1 inch TFT color LCD with touch screen; WXGA (1280 x 800)	
USB接口	USB-A 2.0	

12 后面板信息

说明	特性	
触发信号输入连接器		
型 号	BNC, 阴头	
输入电平	5V TTL	
触发信号输出连接器		
型号	BNC, 阴头	
最大输出电流	20 mA	
输出电平	3.3V TTL	
参考信号输入连接器		



型 号	BNC, 阴头
输入频率	10 MHz ±10 ppm
输入电平	-3 dBm to +10 dBm
输入阻抗	50Ω
参考信号输出连接器	
型号	BNC, 阴头
输出频率	10 MHz ± 5 ppm
信号类型	正弦波
输出电平	0 dBm \pm 3 dB into 50 Ω
输出阻抗	50 Ω
直流偏置输入连接器	
型号	BNC, 阴头
最大输入电压	± 35VDC
最大输入电流 (不恶化射频指标)	± 300 mA
最大输入电流(保险丝断开)	500 mA
视频输出	HDMI/VGA/DP
USB (USBTMC) 接口	USB-B 3.0
USB	3.0
网口	10/100/1000 BaseT Ethernet
电源	100 ~ 240 Vrms 50/60 Hz
功耗	SNA6134: 170 W(典型值)
	SNA6154: 240 W(典型值)



13 订购信息

产品	描述		订货号
	4端口,50G矢量网络分	}析仪(包含前面板跳线接口)	SNA6154A
	2端口,50G矢量网络分	♪析仪(包含前面板跳线接口)	SNA6152A
	4端口,44G矢量网络分	→析仪(包含前面板跳线接口)	SNA6144A
	2端口,44G矢量网络分	分析仪(包含前面板跳线接口)	SNA6142A
	4端口, 26.5G矢量网络	8分析仪	SNA6034A
整机.	2端口, 26.5G矢量网络分析仪		SNA6032A
金加	4端口, 13.5G矢量网络	8分析仪	SNA6024A
	2端口, 13.5G矢量网络	8分析仪	SNA6022A
	4端口, 26.5G矢量网络	8分析仪(包含前面板跳线接口)	SNA6134A
	2端口, 26.5G矢量网络	8分析仪(包含前面板跳线接口)	SNA6132A
	4端口, 13.5G矢量网络	8分析仪(包含前面板跳线接口)	SNA6124A
	2端口, 13.5G矢量网络	8分析仪(包含前面板跳线接口)	SNA6122A
标配	一份快速指南,一根电	源线,一根USB数据线,	
7小台C	一份校准证书		
硬件选件	HPR硬件选件	高性能参考源	SNA6000-HPR
	TDA选件	时域分析选件	SNA6000-TDA
	TDR选件	增强时域分析选件	SNA6000-TDR
	SMM选件	标量混频器测量选件	SNA6000-SMM
	SA选件	频谱分析选件	SNA6000-SA
软件选件	PM选件	脉冲测量选件	SNA6000-PM
	MT选件	材料测量选件	SNA6000-MT
	GC选件	增益压缩测量选件	SNA6000-GC
	VMM选件	矢量混频器测量选件	SNA6000-VMM
	NF选件	噪声系数测量选件	SNA6000-NF
	SEM5000A 系列电子校准件		SEM5000A
	N型,Male,50Ω校准件,0-4.5GHz		F503ME
	N型,Female,50Ω校准件,0-4.5GHz		F503FE
附件	N型,Male,50Ω校准件,0-9GHz		F504MS
	N型,Female,50Ω校准件,0-9GHz		F504FS
	N型,Male,50Ω一体	化校准件,0-9GHz	Y504MS
	N型, Female, 50Ω-	体化校准件,0-9GHz	Y504FS
	N型,Male and Femal	e,50Ω校准件,0-9GHz	F504TS
	N型,Male and Fema	e,50Ω校准件,0-18GHz	F505TS
	3.5mm, Male, 50Ω核	E准件,0-4.5GHz	F603ME



3.5mm, Female, 50Ω校准件, 0-4.5GHz F604MS 3.5mm, Male, 50Ω校准件, 0-9GHz F604MS 3.5mm, Female, 50Ω校准件, 0-9GHz F604FS 3.5mm, Male and Female, 50Ω校准件, 0-9GHz F604TS 3.5mm, Male, 50Ω校准件, 0-26.5GHz Y606MS 3.5mm, Female, 50Ω校准件, 0-26.5GHz Y606MS 3.5mm, Female, 50Ω校准件, 0-26.5GHz Y606FS 3.5mm, Female, 50Ω校准件, 0-26.5GHz F606FS 3.5mm, Male and Female, 50Ω校准件, 0-26.5GHz F606TS 2.4mm, Male, 50Ω—体化校准件, 0-50GHz Y808MS 2.4mm, Female, 50Ω—体化校准件, 0-50GHz Y808MS 2.4mm, Male and Female, 50Ω校准件, 0-50GHz F808TS 2.4mm, Male, 50Ω校准件, 0-50GHz F808TS 2.4mm, Male, 50Ω校准件, 0-50GHz F808MS 2.4mm, Female, 50Ω校准件, 0-50GHz F808FS 0Ω 波导校准件, WR42, 18-26.5GHz KWR42A N(M)-SMA(F) 射频同轴线缆 DC~6 GHz,1000 mm S06-NMSF-1M S06-NMSF-1M S06-NMSF-1M S18-NMSF-1M S18-NMSF-1M S29 mm(M)-2.9 mm (F) 同轴线缆 DC~40 GHz,1000 mm S40-29M29F-1M N(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-SMA-18L N(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-SMA-18L SMA(M)-SMA(M) pliak线缆 DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆 DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆 DC~26.5 GHz, 635 mm V26-N35FA35F-25IN NMD 3.5 female-NMD 3.5 female DC-26.5 GHz, 635 mm V26-N35FA35F-25IN NMD 2.4 female-NMD 2.4 female DC-50 GHz, 635 mm V50-N24FA24F-25IN USB-GPIB Smijijim, fw SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调单端探头 DC-18 GHz ADP-18 TDR可调单端探头 DC-26.5 GHz ASP-18 TDR可调单端探头 DC-26.5 GHz ASP-26		
3.5mm, Female, 500校准件, 0-9GHz F604FS 3.5mm, Male and Female, 500校准件, 0-9GHz F604TS 3.5mm, Male, 500校准件, 0-26.5GHz Y606MS 3.5mm, Female, 500校准件, 0-26.5GHz Y606FS 3.5mm, Female, 500校准件, 0-26.5GHz F606FS 3.5mm, Female, 500校准件, 0-26.5GHz F606FS 3.5mm, Male and Female, 500校准件, 0-26.5GHz F606FS 2.4mm, Male, 50Ω—体化校准件, 0-50GHz Y808MS 2.4mm, Female, 50Ω—体化校准件, 0-50GHz Y808FS 2.4mm, Male and Female, 50Ω校准件, 0-50GHz F808TS 2.4mm, Male, 50Ω校准件, 0-50GHz F808TS 2.4mm, Male, 50Ω校准件, 0-50GHz F808MS 2.4mm, Female, 50Ω校准件, 0-50GHz F808MS 2.4mm, Female, 50Ω校准件, 0-50GHz F808FS 50Ω 波导校准件, WR42, 18-26.5GHz KWR42A N(M)-SMA(F) 射频同轴线缆 DC~6 GHz,1000 mm S18-NMSF-1M N(M)-SMA(F) 射频同轴线缆 DC~18 GHz,1000 mm S18-NMSF-1M N(M)-2.9 mm (F) 同轴线缆 DC~18 GHz,1000 mm N-SMA-18L N(M)-N(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-SMA-18L N(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-N-18L SMA(M)-SMA(M) 削频同轴线缆 DC~18 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 635 mm V26-N35MN35F-25IN NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24FA24F-25IN USB-GPIB 董記器 射頻演示板 SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-18 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	3.5mm,Female,50Ω校准件,0-4.5GHz	F603FE
3.5mm, Male and Female, 500校准件, 0-9GHz 3.5mm, Male, 50Ω校准件, 0-26.5GHz 3.5mm, Female, 50Ω校准件, 0-26.5GHz 3.5mm, Female, 50Ω校准件, 0-26.5GHz 3.5mm, Female, 50Ω校准件, 0-26.5GHz 5.5mm, Male and Female, 50Ω校准件, 0-26.5GHz 5.5mm, Male and Female, 50Ω校准件, 0-26.5GHz 2.4mm, Male, 50Ω—体化校准件, 0-50GHz 2.4mm, Female, 50Ω—体化校准件, 0-50GHz 2.4mm, Male and Female, 50Ω校准件, 0-50GHz 2.4mm, Male and Female, 50Ω校准件, 0-50GHz 3.5mm, Male and Female, 50Ω校准件, 0-50GHz 3.5mm, Male and Female, 50Ω校准件, 0-50GHz 3.5mm, Male, 50Ω校准件, 0-50GHz 3.5mm, Male, 50Ω校准件, 0-50GHz 3.5mm, Male, 50Ω校准件, 0-50GHz 3.5mm, Female, 50Ω校准件, 0-50GHz 3.5mm, Female, 50Ω校准件, 0-50GHz 3.5mm, Male, 50Ω M	3.5mm, Male, 50Ω校准件, 0-9GHz	F604MS
3.5mm, Male, 50Ω校准件, 0-26.5GHz Y606MS 3.5mm, Female, 50Ω校准件, 0-26.5GHz Y606FS 3.5mm, Female, 50Ω校准件, 0-26.5GHz F606FS 3.5mm, Male and Female, 50Ω校准件, 0-26.5GHz F606TS 2.4mm, Male, 50Ω—体化校准件, 0-50GHz Y808MS 2.4mm, Female, 50Ω—体化校准件, 0-50GHz Y808FS 2.4mm, Male and Female, 50Ω校准件, 0-50GHz F808TS 2.4mm, Male and Female, 50Ω校准件, 0-50GHz F808TS 2.4mm, Male, 50Ω校准件, 0-50GHz F808MS 2.4mm, Female, 50Ω校准件, 0-50GHz F808MS 2.4mm, Female, 50Ω校准件, 0-50GHz F808FS 50Ω 波导校准件, WR42, 18-26.5GHz KWR42A N(M)-SMA(F) 射频同轴线缆 DC~6 GHz,1000 mm S06-NMSF-1M N(M)-SMA(F) 射频同轴线缆 DC~18 GHz,1000 mm S18-NMSF-1M 2.9 mm(M)- 2.9 mm (F) 同轴线缆 DC~18 GHz, 1000 mm N-SMA-18L N(M)-N(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-SMA-18L N(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm SMA-SMA-18L SMA(M)-SMA(M) 射频同轴线缆 DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 635 mm V26-N35M35F-25IN NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz, 635 mm V26-N35M35F-25IN NMD 2.4 female-APC 3.5 female DC-26.5 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.5 GHz TDR可调差分探头 DC-18 GHz TDR可调差分探头 DC-18 GHz TDR可调差分探头 DC-18 GHz TDR可调单端探头 DC-18 GHz ASP-18	3.5mm,Female,50Ω校准件,0-9GHz	F604FS
3.5mm, Female, 50Ω校准件, 0-26.5GHz 3.5mm, Female, 50Ω校准件, 0-26.5GHz 5.5mm, Male and Female, 50Ω校准件, 0-26.5GHz 5.4mm, Male, 50Ω—体化校准件, 0-50GHz 5.4mm, Male, 50Ω—体化校准件, 0-50GHz 5.4mm, Male, 50Ω—体化校准件, 0-50GHz 5.4mm, Male and Female, 50Ω校准件, 0-50GHz 6.4mm, Male, 50Ω校准件, 0-50GHz 6.4mm, Male, 50Ω校准件, 0-50GHz 6.4mm, Male, 50Ω校准件, 0-50GHz 6.4mm, Female, 50Ω	3.5mm, Male and Female, 50Ω校准件, 0-9GHz	F604TS
3.5mm, Female, 50Ω校准件, 0-26.5GHz F606FS 3.5mm, Male and Female, 50Ω校准件, 0-26.5GHz F606TS 2.4mm, Male, 50Ω—体化校准件, 0-50GHz Y808MS 2.4mm, Female, 50Ω—体化校准件, 0-50GHz Y808FS 2.4mm, Male and Female, 50Ω校准件, 0-50GHz F808TS 2.4mm, Male and Female, 50Ω校准件, 0-50GHz F808TS 2.4mm, Male, 50Ω校准件, 0-50GHz F808MS 2.4mm, Female, 50Ω校准件, 0-50GHz F808MS 2.4mm, Female, 50Ω校准件, 0-50GHz F808FS 50Ω 波导校准件, WR42, 18-26.5GHz KWR42A N(M)-SMA(F) 射频同轴线缆 DC~6 GHz,1000 mm S06-NMSF-1M N(M)-SMA(F) 射频同轴线缆 DC~18 GHz,1000 mm S18-NMSF-1M 2.9 mm(M)-2.9 mm (F) 同轴线缆 DC~40 GHz,1000 mm N-SMA-18L N(M)-N(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-SMA-18L N(M)-N(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-N-18L SMA(M)-SMA(M) 射频同轴线缆 DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 635 mm V26-N35MN35F-25IN NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm V26-N35FA35F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24MN24F-25IN USB-GPIB适配器 射频演示板 USB-GPIB SNA-TB01 TDR可调差分探头 DC-18 GHz TDR可调单端探头 DC-18 GHz ADP-18 TDR可调单端探头 DC-18 GHz	3.5mm, Male, 50Ω校准件, 0-26.5GHz	Y606MS
3.5mm, Male and Female, 50Ω校准件, 0-26.5GHz	3.5mm, Female, 50Ω校准件, 0-26.5GHz	Y606FS
2.4mm, Male, 50Ω—体化校准件, 0-50GHz Y808MS 2.4mm, Female, 50Ω—体化校准件, 0-50GHz Y808FS 2.4mm, Male and Female, 50Ω校准件, 0-50GHz F808TS 2.4mm, Male, 50Ω校准件, 0-50GHz F808MS 2.4mm, Female, 50Ω校准件, 0-50GHz F808MS 2.4mm, Female, 50Ω校准件, 0-50GHz F808MS 2.4mm, Female, 50Ω校准件, 0-50GHz F808FS 50Ω 波导校准件, WR42, 18-26.5GHz KWR42A N(M)-SMA(F) 射频同轴线缆 DC~6 GHz,1000 mm S06-NMSF-1M 2.9 mm(M)-2.9 mm (F) 同轴线缆 DC~18 GHz,1000 mm S40-29M29F-1M N(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-SMA-18L N(M)-N(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-N-18L SMA(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm SMA-SMA-18L SMA(M)-SMA(M) 同轴线缆 DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMAF-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 635 mm V26-N35MN35F-25IN NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm V26-N35FA35F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24FA24F-25IN USB-GPIB适配器 USB-GPIB 射频演示板 SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	3.5mm, Female, 50Ω校准件, 0-26.5GHz	F606FS
2.4mm, Female, 50Ω—体化校准件, 0-50GHz 2.4mm, Male and Female, 50Ω校准件, 0-50GHz 2.4mm, Male, 50Ω校准件, 0-50GHz 5.4mm, Female, 50Ω校准件, 0-50GHz 6.4mm, Female, 50Ω MR	3.5mm, Male and Female, 50Ω校准件, 0-26.5GHz	F606TS
2.4mm, Male and Female, 50Ω校准件, 0-50GHz F808TS 2.4mm, Male, 50Ω校准件, 0-50GHz F808MS 2.4mm, Female, 50Ω校准件, 0-50GHz F808MS 2.4mm, Female, 50Ω校准件, 0-50GHz F808FS 50Ω 波导校准件, WR42, 18-26.5GHz KWR42A N(M)-SMA(F) 射频同轴线缆 DC~6 GHz,1000 mm S06-NMSF-1M N(M)-SMA(F) 射频同轴线缆 DC~18 GHz,1000 mm S40-29M29F-1M N(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-SMA-18L N(M)-N(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-N-18L SMA(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm SMA-SMA-18L SMA(M)-SMA(M) 射频同轴线缆 DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMA-SMA-26L NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz, 635 mm V26-N35MN35F-25IN NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm V26-N35FA35F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24MN24F-25IN USB-GPIB适配器 USB-GPIB 射频演示板 SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调单端探头 DC-18 GHz ASP-18	2.4mm, Male, 50Ω一体化校准件, 0-50GHz	Y808MS
2.4mm, Male, 50Ω校准件, 0-50GHz F808MS 2.4mm, Female, 50Ω校准件, 0-50GHz F808FS 50Ω 波导校准件, WR42, 18-26.5GHz KWR42A N(M)-SMA(F) 射频同轴线缆 DC~6 GHz,1000 mm S06-NMSF-1M N(M)-SMA(F) 射频同轴线缆 DC~18 GHz,1000 mm S18-NMSF-1M 2.9 mm(M)- 2.9 mm (F) 同轴线缆 DC~40 GHz,1000 mm S40-29M29F-1M N(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-SMA-18L N(M)-N(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-N-18L SMA(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm SMA-SMA-18L SMA(M)-SMA(M) 射频同轴线缆 DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMA-SMA-26L NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz, 635 mm V26-N35M35F-25IN NMD 2.4 female-APC 3.5 female DC-26.5 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24MN24F-25IN USB-GPIB适配器 USB-GPIB 射频演示板 SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-18 GHz ASP-18	2.4mm, Female, 50Ω一体化校准件, 0-50GHz	Y808FS
2.4mm, Female, 50Ω校准件, 0-50GHz 50Ω 波导校准件, WR42, 18-26.5GHz N(M)-SMA(F) 射频同轴线缆 DC~6 GHz,1000 mm S06-NMSF-1M N(M)-SMA(F) 射频同轴线缆 DC~18 GHz,1000 mm S18-NMSF-1M 2.9 mm(M)- 2.9 mm (F) 同轴线缆 DC~40 GHz,1000 mm N-SMA-18L N(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-SMA-18L N(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-N-18L SMA(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm SMA-SMA-18L SMA(M)-SMA(M) 同轴线缆 DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMA-SMA-26L NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz, 635 mm NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm NMD 2.4 female-NMD 2.4 Male DC-50 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24FA24F-25IN USB-GPIB适配器 NMD TDR可调差分探头 DC-18 GHz TDR可调差分探头 DC-18 GHz ADP-18 TDR可调单端探头 DC-18 GHz ASP-18	2.4mm,Male and Female,50Ω校准件,0-50GHz	F808TS
50Ω 波导校准件, WR42, 18-26.5GHz KWR42A N(M)-SMA(F) 射频同轴线缆 DC~6 GHz,1000 mm S06-NMSF-1M N(M)-SMA(F) 射频同轴线缆 DC~18 GHz,1000 mm S18-NMSF-1M 2.9 mm(M)- 2.9 mm (F) 同轴线缆 DC~40 GHz,1000 mm S40-29M29F-1M N(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-SMA-18L N(M)-N(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-N-18L SMA(M)-SMA(M) 射频同轴线缆 DC~26.5 GHz, 1000 mm SMA-SMA-18L SMA(M)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMAF-SMA-26L NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz, 635 mm V26-N35M35F-25IN NMD 2.4 female-APC 3.5 female DC-26.5 GHz, 635 mm V26-N35FA35F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24FA24F-25IN USB-GPIB SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-18 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	2.4mm, Male, 50Ω校准件, 0-50GHz	F808MS
N(M)-SMA(F) 射频同轴线缆 DC~6 GHz,1000 mm S06-NMSF-1M N(M)-SMA(F) 射频同轴线缆 DC~18 GHz,1000 mm S18-NMSF-1M 2.9 mm(M)- 2.9 mm (F) 同轴线缆 DC~40 GHz,1000 mm S40-29M29F-1M N(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-SMA-18L N(M)-N(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-N-18L SMA(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm SMA-SMA-18L SMA(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm SMA-SMA-18L SMA(M)-SMA(M)同轴线缆 DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMAF-SMA-26L NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz, 635 mm V26-N35MN35F-25IN NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm V26-N35FA35F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24MN24F-25IN USB-GPIB适配器 USB-GPIB适配器 USB-GPIB SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-26.5 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	2.4mm,Female,50Ω校准件,0-50GHz	F808FS
N(M)-SMA(F) 射频同轴线缆 DC~18 GHz,1000 mm S18-NMSF-1M 2.9 mm(M)- 2.9 mm (F) 同轴线缆 DC~40 GHz,1000 mm S40-29M29F-1M N(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-SMA-18L N(M)-N(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-N-18L SMA(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm SMA-SMA-18L SMA(M)-SMA(M) 同轴线缆 DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMAF-SMA-26L NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz, 635 mm V26-N35MN35F-25IN NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm V26-N35FA35F-25IN NMD 2.4 female-NMD 2.4 Male DC-50 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24FA24F-25IN USB-GPIB适配器 USB-GPIB 射频演示板 SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-26.5 GHz ASP-18	50Ω 波导校准件,WR42,18-26.5GHz	KWR42A
2.9 mm(M)- 2.9 mm (F) 同轴线缆 DC~40 GHz,1000 mm S40-29M29F-1M N(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-SMA-18L N(M)-N(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-N-18L SMA(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm SMA-SMA-18L SMA(M)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMAF-SMA-26L NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz, 635 mm V26-N35MN35F-25IN NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm V26-N35FA35F-25IN NMD 2.4 female-NMD 2.4 Male DC-50 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24FA24F-25IN USB-GPIB适配器 USB-GPIB 射频演示板 SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-26.5 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	N(M)-SMA(F) 射频同轴线缆 DC~6 GHz,1000 mm	S06-NMSF-1M
N(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-SMA-18L N(M)-N(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-N-18L SMA(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm SMA-SMA-18L SMA(M)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMAF-SMA-26L NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz, 635 mm V26-N35MN35F-25IN NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm V26-N35FA35F-25IN NMD 2.4 female-NMD 2.4 Male DC-50 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24FA24F-25IN USB-GPIB适配器 USB-GPIB适配器 USB-GPIB SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-26.5 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	N(M)-SMA(F) 射频同轴线缆 DC~18 GHz,1000 mm	S18-NMSF-1M
N(M)-N(M) 射频同轴线缆 DC~18 GHz, 1000 mm N-N-18L SMA(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm SMA-SMA-18L SMA(M)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMAF-SMA-26L NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz, 635 mm V26-N35MN35F-25IN NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm V26-N35FA35F-25IN NMD 2.4 female-NMD 2.4 Male DC-50 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24FA24F-25IN USB-GPIB适配器 USB-GPIB 射频演示板 SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-18 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	2.9 mm(M)- 2.9 mm (F) 同轴线缆 DC~40 GHz,1000 mm	S40-29M29F-1M
SMA(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm SMA-SMA-18L SMA(M)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMAF-SMA-26L NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz, 635 mm V26-N35MN35F-25IN NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm V26-N35FA35F-25IN NMD 2.4 female-NMD 2.4 Male DC-50 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24FA24F-25IN USB-GPIB适配器 USB-GPIB SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-26.5 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	N(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm	N-SMA-18L
SMA(M)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMA-SMA-26L SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMAF-SMA-26L NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz, 635 mm V26-N35MN35F-25IN NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm V26-N35FA35F-25IN NMD 2.4 female-NMD 2.4 Male DC-50 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24FA24F-25IN USB-GPIB适配器 USB-GPIB SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-26.5 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	N(M)-N(M) 射频同轴线缆 DC~18 GHz, 1000 mm	N-N-18L
SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm SMAF-SMA-26L NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz, 635 mm V26-N35MN35F-25IN NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm V26-N35FA35F-25IN NMD 2.4 female-NMD 2.4 Male DC-50 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24FA24F-25IN USB-GPIB适配器 USB-GPIB USB-GPIB SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-26.5 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	SMA(M)-SMA(M) 射频同轴线缆 DC~18 GHz, 1000 mm	SMA-SMA-18L
NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz, 635 mm V26-N35MN35F-25IN NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm V26-N35FA35F-25IN NMD 2.4 female-NMD 2.4 Male DC-50 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24FA24F-25IN USB-GPIB适配器 USB-GPIB USB-GPIB SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-26.5 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	SMA(M)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm	SMA-SMA-26L
NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm V26-N35FA35F-25IN NMD 2.4 female-NMD 2.4 Male DC-50 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24FA24F-25IN USB-GPIB适配器 USB-GPIB SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-26.5 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	SMA(F)-SMA(M)同轴线缆DC~26.5 GHz, 1000 mm	SMAF-SMA-26L
NMD 2.4 female-NMD 2.4 Male DC-50 GHz, 635 mm V50-N24MN24F-25IN NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24FA24F-25IN USB-GPIB适配器 USB-GPIB 射频演示板 SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-26.5 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz, 635 mm	V26-N35MN35F-25IN
NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm V50-N24FA24F-25IN USB-GPIB适配器 USB-GPIB 射频演示板 SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-26.5 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm	V26-N35FA35F-25IN
USB-GPIB适配器 射频演示板 SNA-TB01 TDR可调差分探头 DC-18 GHz TDR可调差分探头 DC-26.5 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	NMD 2.4 female-NMD 2.4 Male DC-50 GHz, 635 mm	V50-N24MN24F-25IN
射频演示板 SNA-TB01 TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-26.5 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	NMD 2.4 female-APC 2.4 female DC-50 GHz, 635 mm	V50-N24FA24F-25IN
TDR可调差分探头 DC-18 GHz ADP-18 TDR可调差分探头 DC-26.5 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	USB-GPIB适配器	USB-GPIB
TDR可调差分探头 DC-26.5 GHz ADP-26 TDR可调单端探头 DC-18 GHz ASP-18	射频演示板	SNA-TB01
TDR可调单端探头 DC-18 GHz ASP-18	TDR可调差分探头 DC-18 GHz	ADP-18
	TDR可调差分探头 DC-26.5 GHz	ADP-26
TDR可调单端探头 DC-26.5 GHz ASP-26	TDR可调单端探头 DC-18 GHz	ASP-18
	TDR可调单端探头 DC-26.5 GHz	ASP-26



14 联系我们

深圳市鼎阳科技股份有限公司

地址:广东省深圳市宝安区留仙三路安通达科技园 4 & 5 栋

服务热线: 400-878-0807, 0755-36887876

E-mail: market@siglent.com

网址: http://www.siglent.com



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2002 年,鼎阳科技创始人开始专注于示波器研发,2005 年成功研制出鼎阳第一款数字示波器。历经多年发展,鼎阳产品已扩展到数字示波器、手持示波表、函数/任意波形发生器、频谱分析仪、矢量网络分析仪、射频/微波信号源、台式万用表、直流电源、电子负载等基础测试测量仪器产品,是全球极少数能够同时研发、生产、销售数字示波器、信号发生器、频谱分析仪和矢量网络分析仪四大通用电子测试测量仪器主力产品的厂家之一,国家重点"小巨人"企业。同时也是国内主要竞争对手中极少数同时拥有这四大主力产品并且四大主力产品全线进入高端领域的厂家。公司总部位于深圳,在美国克利夫兰、德国奥格斯堡、日本东京成立了子公司,在成都成立了分公司,产品远销全球80多个国家和地区,SIGLENT已经成为全球知名的测试测量仪器品牌。

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深圳市鼎阳科技股份有限公司 全国免费服务热线: 400-878-0807

网址: www.siglent.com

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