泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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sales@talentmw.com
www.talentmw.com

Model:TLLA1G18G-13-20

Low Noise Amplifier
1-18GHz, NF:2.0dB, Gain:13dB,P1dB:14dBm

Feature:

- Ultra Wide Band: 1-18GHz
- Gain: 13dB Min
- Noise Figure: 2.0dB Typ
- Unconditional stability
- 50 Ohm Matched Input / Output

电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range		1-18		GHz
增益 Gain	13	14		dB
增益平坦度 Gain Flantness		±1.0		dB
噪声系数 Noise Figure		2.0	2.5	dB
线性输出功率P1dB	13	14		dBm
输入驻波 Input VSWR		1.9		： 1
输出驻波 Output VSWR		2.0		： 1
直流电压 DC Voltage		+12		V DC
直流供电 DC power supply		50		mA
阻抗 Impedance		50		Ohms

机械特性 Mechanical :

参数Parameter	指标 Value
输入输出接口 Input /Output Connector	SMA Female
直流偏置 Bias	Solder Pin
尺寸 Size	44.8mm*29.2mm*11mm
重量 Weight	/

Available 220V System Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF INPUT POWER	20 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

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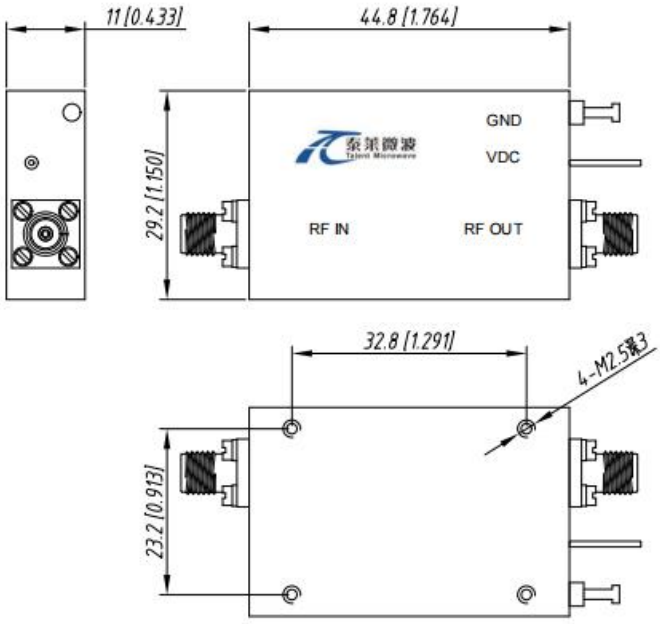
外形尺寸Outline Drawing:

Unit: mm(Inches)



***Heat Sink Required During Operation

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+85	℃
存储温度 Non-operating Temperature	-55		+125	℃
相对湿度 Relative humidity	95			
海拔 Altitude	50000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号Revision
TLLA1G18G-13-20	Low Noise Amplifier, 1-18GHz, Noise Figure:2.0 dB, Gain:13 dB,P1dB:14dBm,12V DC,Without Heatsink	Rev.1.1
TLLA1G18G-13-20-HS	Low Noise Amplifier, 1-18GHz, Noise Figure:2.0 dB, Gain:13 dB,P1dB:14dBm,12V DC,With Heatsink	Rev.1.1

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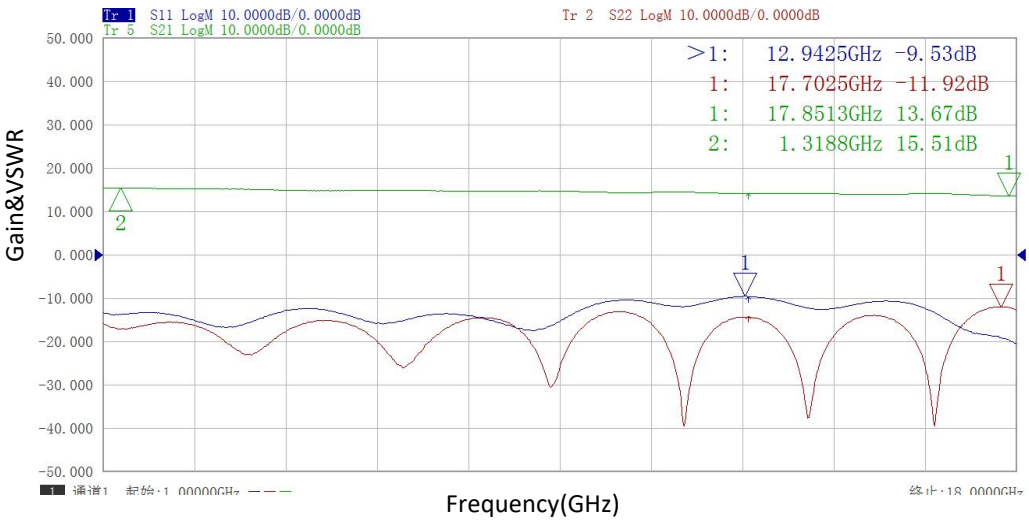
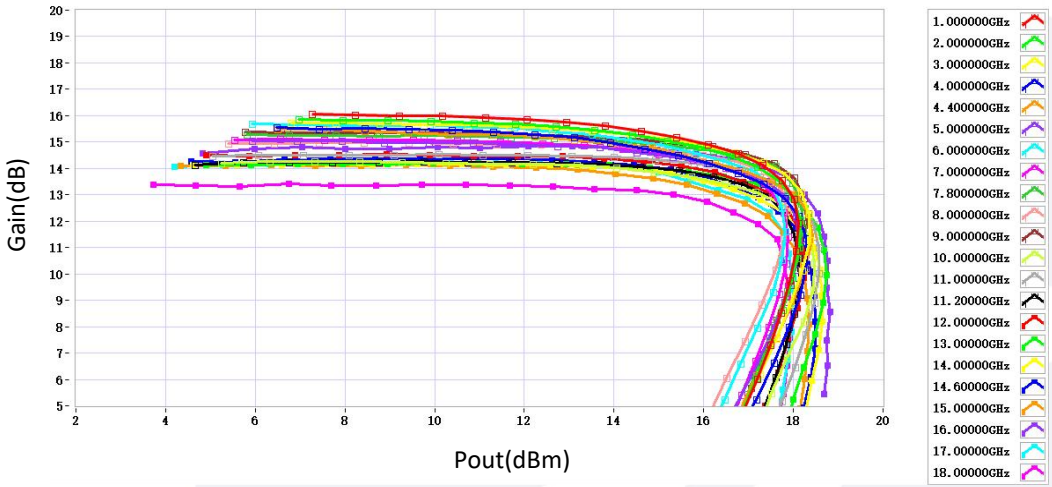
典型曲线 Typical Performance Data:

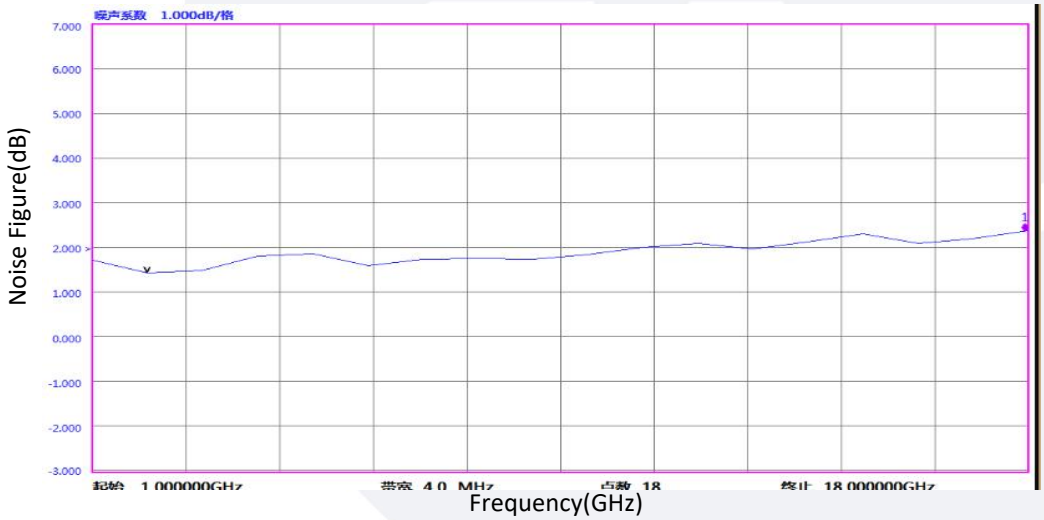
Gain&VSWR vs Frequency



Gain vs Output Power



Noise Figure vs Frequency



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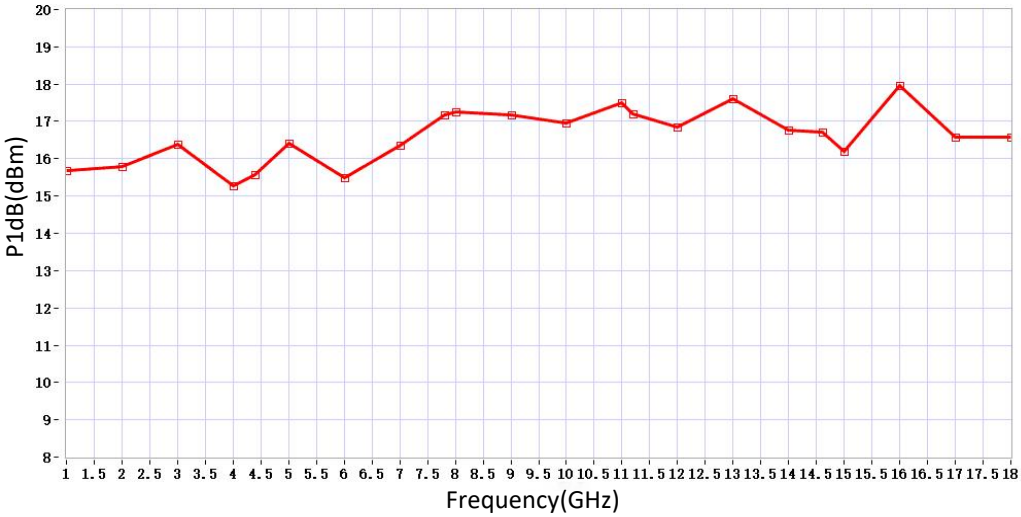
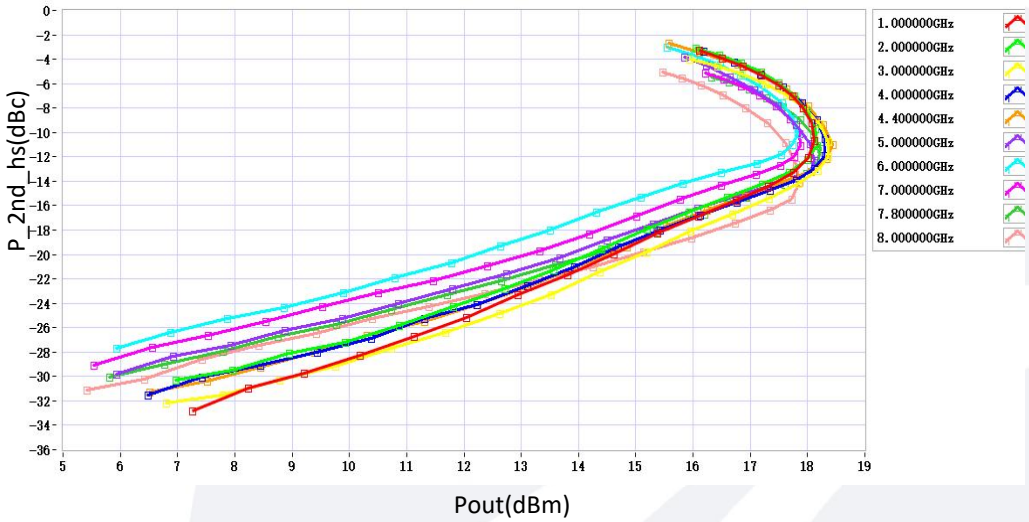
典型曲线 Typical Performance Data:

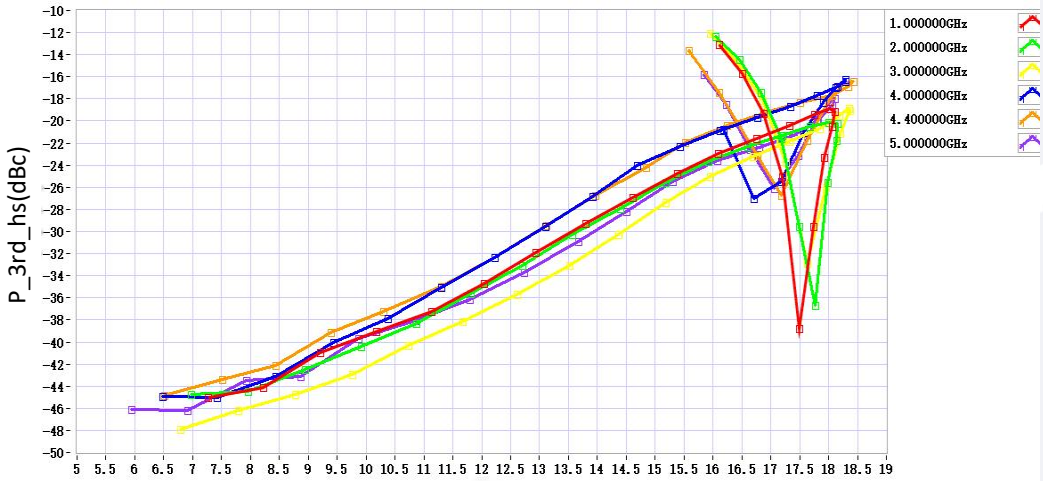
P1dB vs Frequency



2nd Harmonic vs Output Power



3rd Harmonic vs Output Power



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典型曲线 Typical Performance Data: