泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Model:TLLA0.1G26G-28-50

Low Noise Amplifier
0.1-26GHz, NF:4.0dB, Gain:28dB,P1dB:21dBm

Feature:

- Ultra Wide Band: 0.1-26GHz
- Gain: 28dB Typ
- Noise Figure: 4.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

电气特性 Electrical Specifications:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range		0.1-26		GHz
增益 Gain	27	28		dB
增益平坦度 Gain Flatness		±2.5	±3.0	dB
噪声系数 Noise Figure		4	6	dB
线性输出功率 Output P1dB	18	21		dBm
输出三阶交调 Output IP3		30		dBm
输入驻波 Input VSWR		1.8		:1
输出驻波 Output VSWR		1.8		:1
直流电压 DC Voltage		12		V DC
直流电流 DC Supply Current		360		mA
阻抗 Impedance		50		Ohms

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/2.92mm Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	35*40*12	mm
重量 Weight	60	g

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	-5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

Available 220V System Benchtop Amplifier

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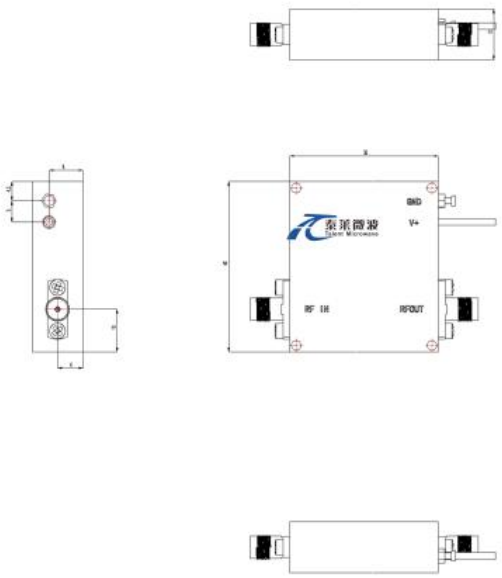
外形尺寸 Outline Drawing:

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		+75	℃
存储温度 Non-operating Temperature	-55		+125	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			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
TLLA0.1G26G-28-50	Low Noise Amplifier, 0.1-26GHz, Noise Figure:4.0dB, Gain:28 dB,P1dB:21dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.1G26G-28-50-HS	Low Noise Amplifier, 0.1-26GHz, Noise Figure:4.0dB, Gain:28 dB,P1dB:21dBm,+12V DC,With Heatsink	Rev.1.1

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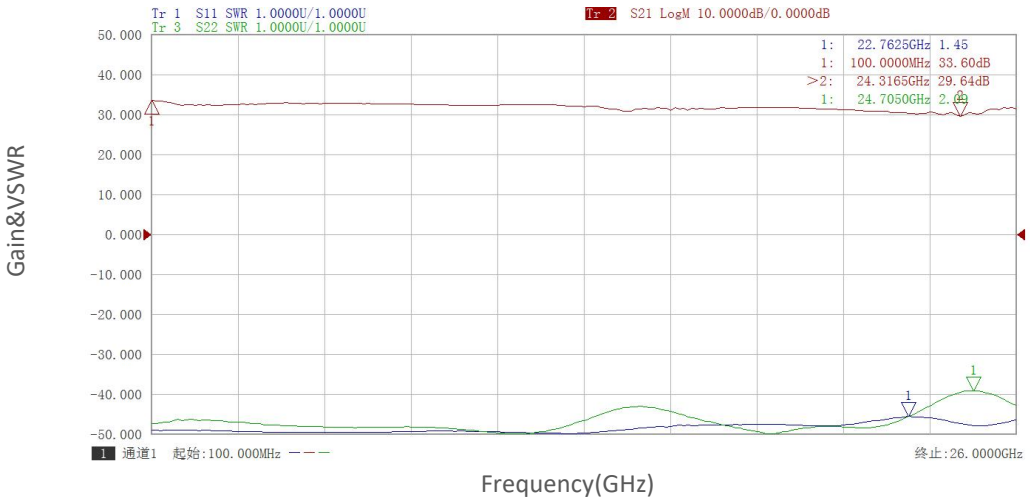
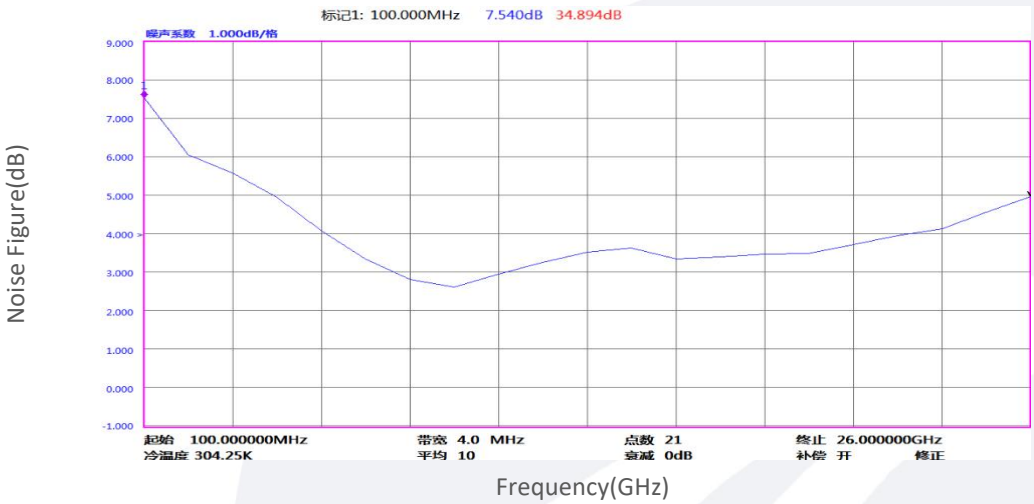
典型曲线 Typical Performance Data:

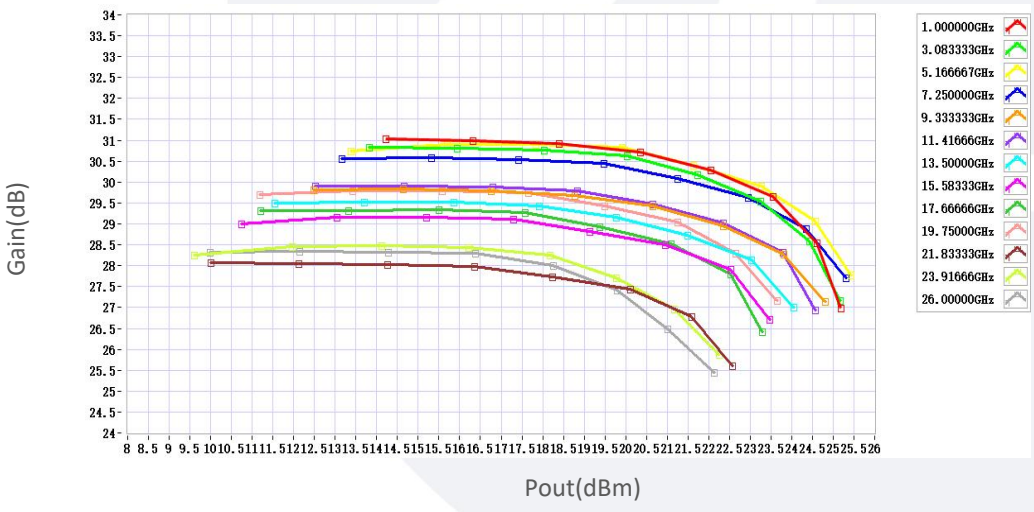
Gain&VSWR vs Frequency



Noise Figure vs Frequency



Gain vs Output Power



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