

Model:TLLA5G20G-35-30

Low Noise Amplifier

5-20GHz, NF:3.0dB, Gain:35dB,P1dB:14.5dBm

Feature:

- Ultra Wide Band: 5-20GHz
- Gain: 35dB Min
- Noise Figure: 3.0 dB Max
- 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	5-20			GHz
增益 Gain	35	37		dB
增益平坦度 Gain Flatness		±1.5		dB
噪声系数 Noise Figure			3.0	dB
线性输出功率P1dB		14.5		dBm
输入驻波 Input VSWR			2.0	:1
输出驻波 Output VSWR			2.0	:1
直流电压 DC Voltage	+10	+12	+18	V DC
直流电流 DC Supply Current		150		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	SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	44.8*29.2*11	mm
重量 Weight	55	g



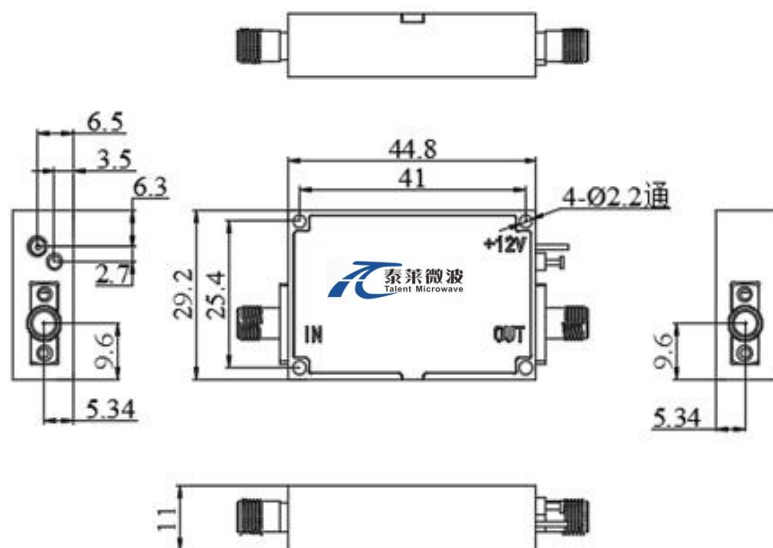
Available 220V System
Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+20V
输入功率 RF Input Power	15 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

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:

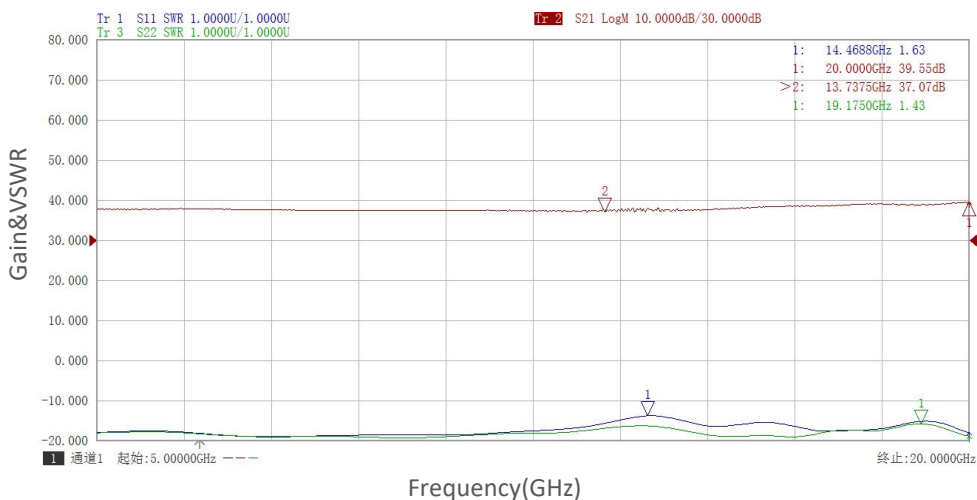
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-44		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

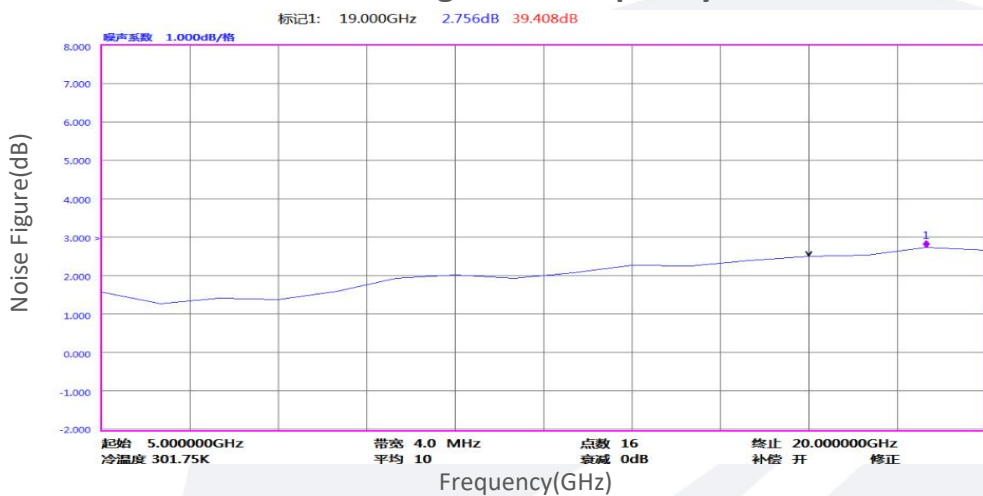
标准型号 Part Number	描述 Description	版本号 Revision
TLLA5G20G-35-30	Low Noise Amplifier, 5-20GHz, Noise Figure:3.0dB, Gain:35 dB,P1dB:14.5dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA5G20G-35-30	Low Noise Amplifier, 5-20GHz, Noise Figure:3.0dB, Gain:35 dB,P1dB:14.5dBm,+12V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

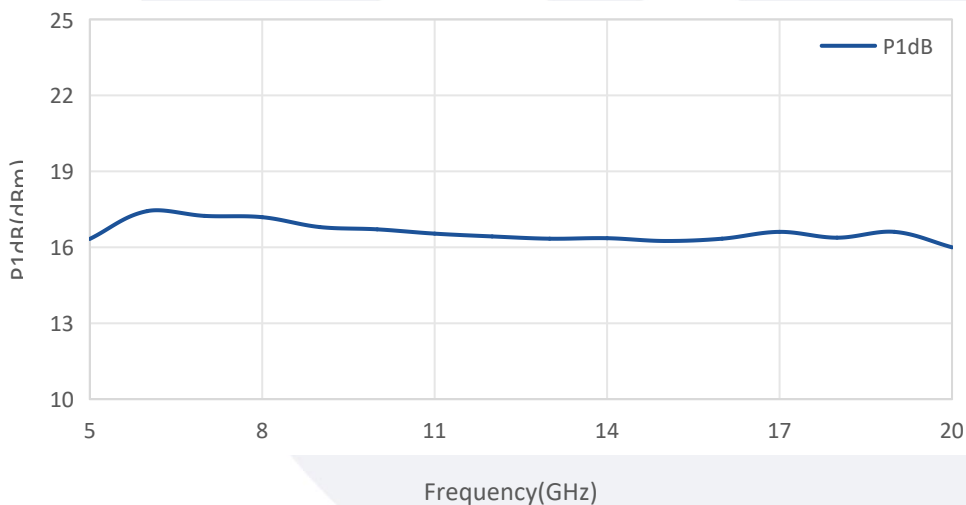
Gain&VSWR vs Frequency



Noise Figure vs Frequency



P1dB vs Frequency



典型曲线 Typical Performance Data:

Psat vs Frequency

