

Model:TLLA50K20G-18-30

Low Noise Amplifier ,50KHz-20GHz NF:2.5 dB, Gain:18dB,P1dB:15dBm

Feature:

- Ultra Wide Band: 50KHz-20GHz
- Gain: 18dB Typ
- Noise Figure: 2.5dB 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	50KHz-20GHz			GHz
增益 Gain		18		dB
增益平坦度 Gain Flantness		±2		dB
噪声系数 Noise Figure		2.5	4.0	dB
线性输出功率P1dB		15		dBm
输入驻波 Input VSWR		2.0		: 1
输出驻波 Output VSWR		2.0	2.2	: 1
直流电压 DC Voltage		+8		V DC
直流供电 DC power supply		70		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	/



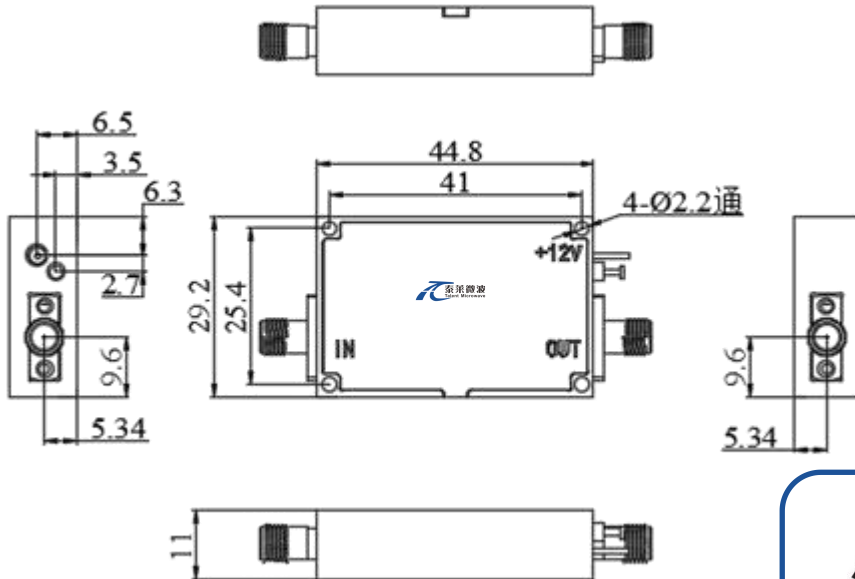
Available 220V System
Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+8 V DC
输入功率 RF INPUT POWER	TBD
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm



*****Heat Sink Required During Operation**



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

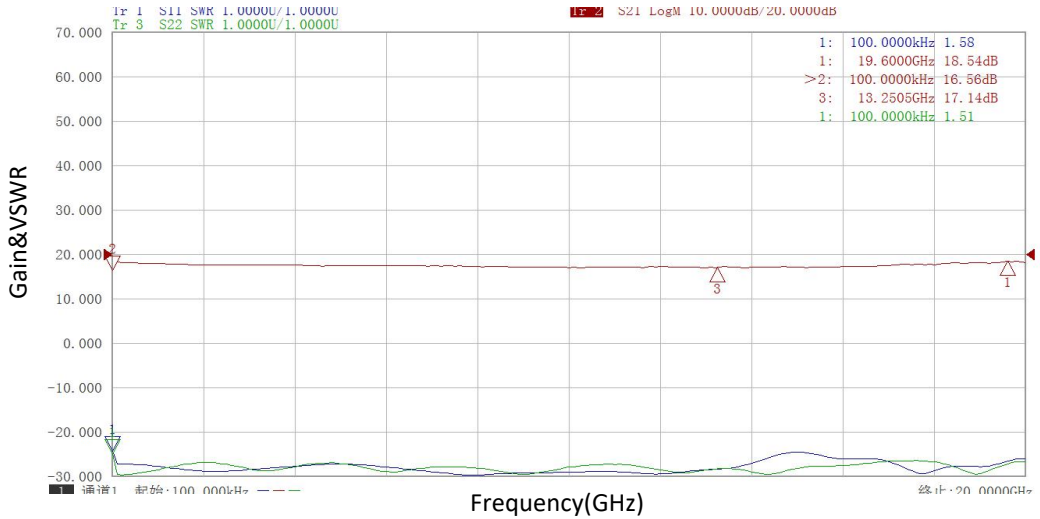
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity	95			
海拔 Altitude	10000		30000	feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

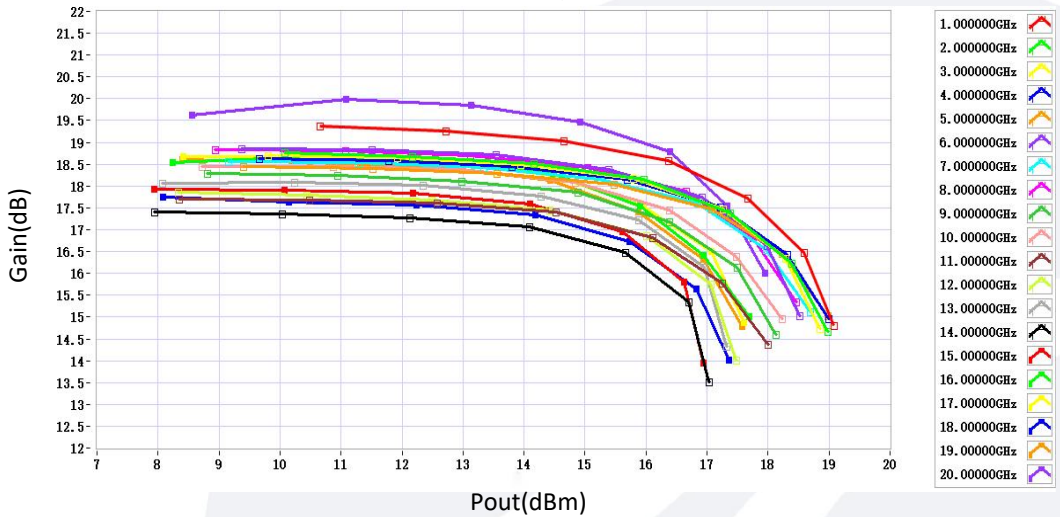
标准型号 Part Number	描述 Description	版本号Revision
TLLA50K20G-18-30	Low Noise Amplifier, 50KHz-20GHz, Noise Figure:2.5 dB, Gain:18 dB,P1dB:15dBm,+8V DC,Without Heatsink	Rev.1.1
TLLA50K20G-18-30-HS	Low Noise Amplifier, 50KHz-20GHz, Noise Figure:2.5 dB, Gain:18 dB,P1dB:15dBm,+8V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

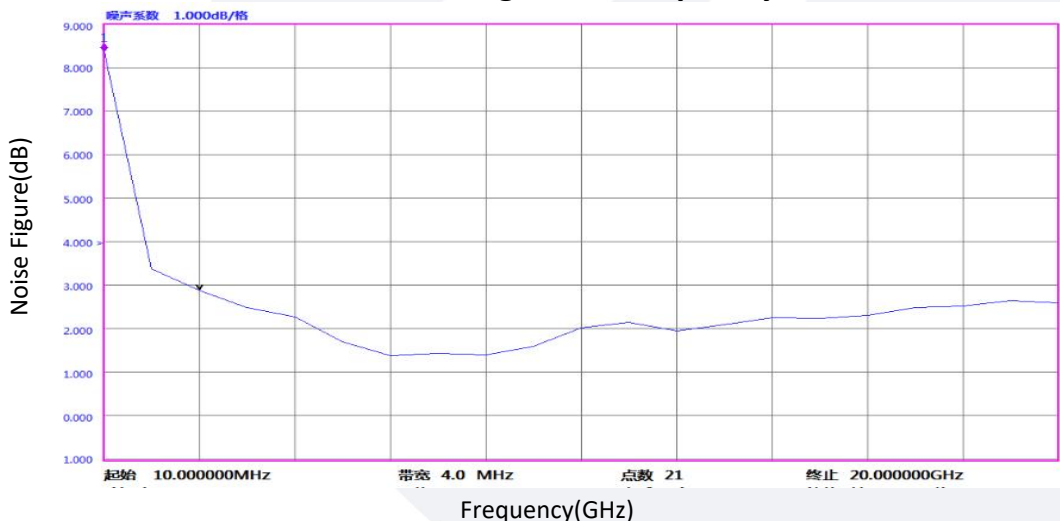
Gain&VSWR vs Frequency



Gain vs Output Power

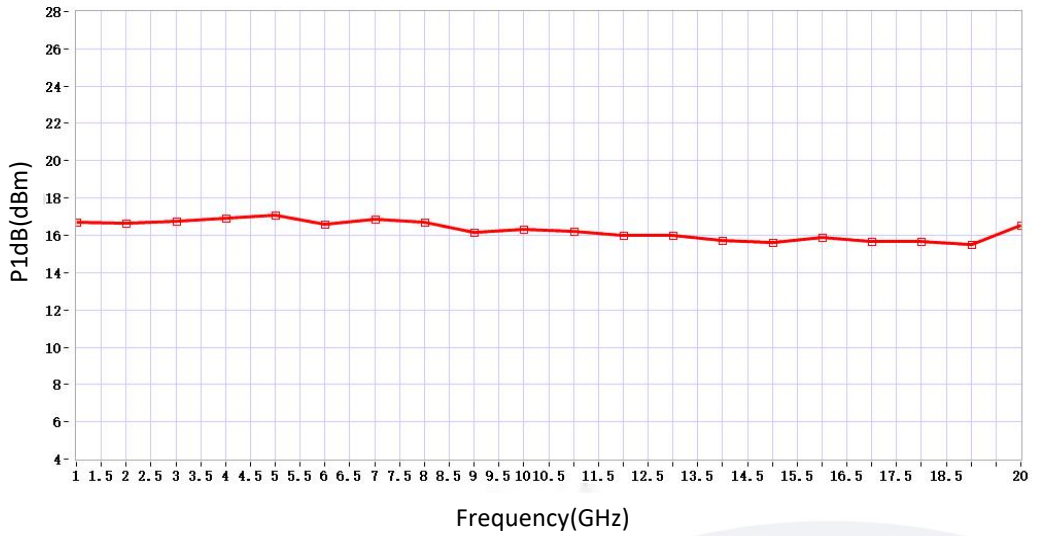


Noise Figure vs Frequency



典型曲线 Typical Performance Data:

P1dB vs Frequency



P3dB vs Frequency

