

Model:TLPA50K20G-32-22
Power Amplifier
50KHz-20GHz,Gain:32dB,P1dB:22dBm
Feature:

- Ultra Wide Band: 50KHz-20GHz
- Gain: 32 dB Typ
- P1dB Output Power: 22 dBm 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	50KHz-20GHz			
增益 Gain		32		dB
增益平坦度 Gain Flatness		±2		dB
线性输出功率 Output P1dB	20	22		dBm
噪声系数 Noise Figure		3		dB
输入驻波 Input VSWR		2.2		:1
输出驻波 Output VSWR		2.2		:1
直流电压 DC Voltage	+10	+12	+13	V DC
直流电流 DC Supply Current	240			mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

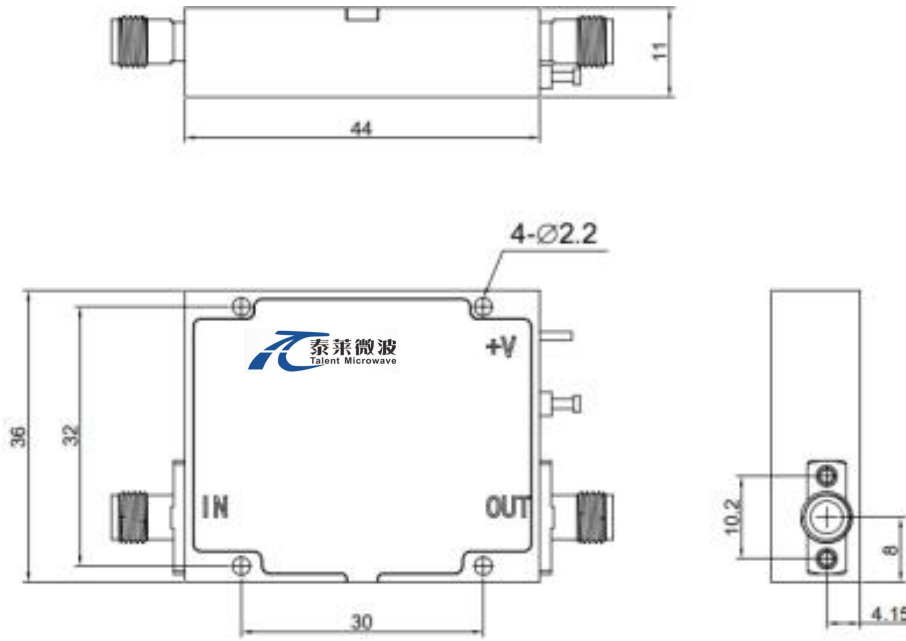
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	44*36*11	mm
重量 Weight	/	g

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+13V
输入功率 RF Input Power	10 dBm
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:

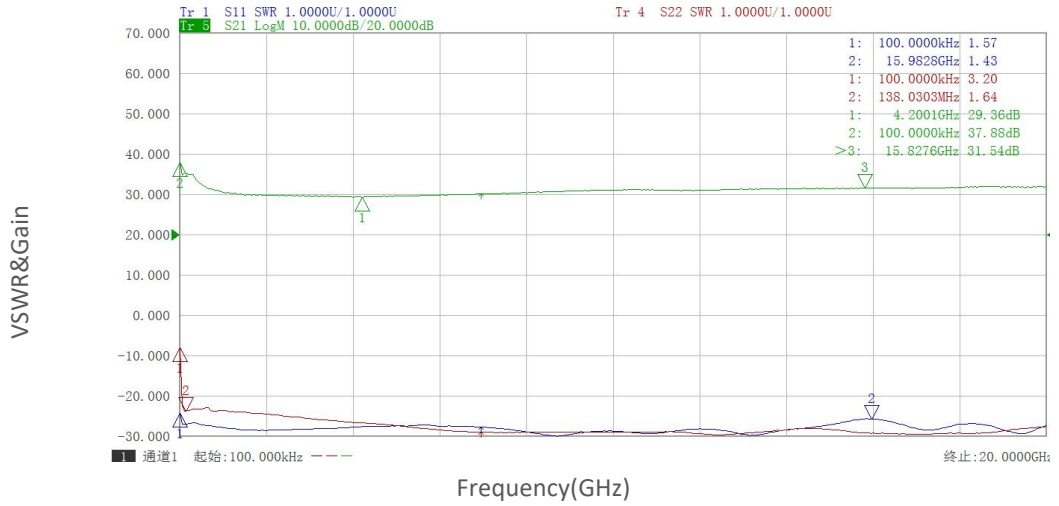
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

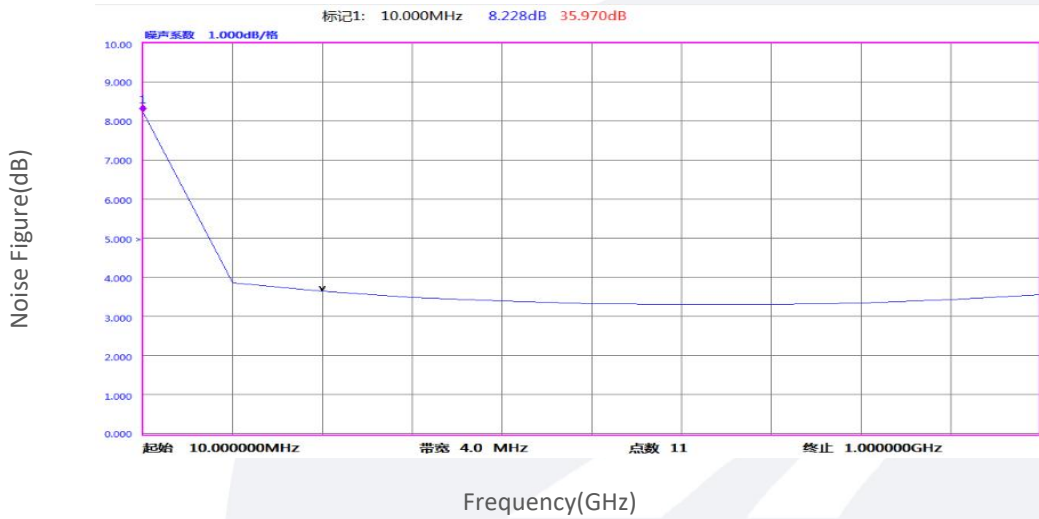
标准型号 Part Number	描述 Description	版本号Revision
TLPA50K20G-32-22	Power amplifier 50KHz-20GHz,Gain:32dB,P1dB:22dBm,+12V DC,Without Heatsink	Rev.1.1
TLPA50K20G-32-22-HS	Power amplifier 50KHz-20GHz,Gain:32dB,P1dB:22dBm,+12V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

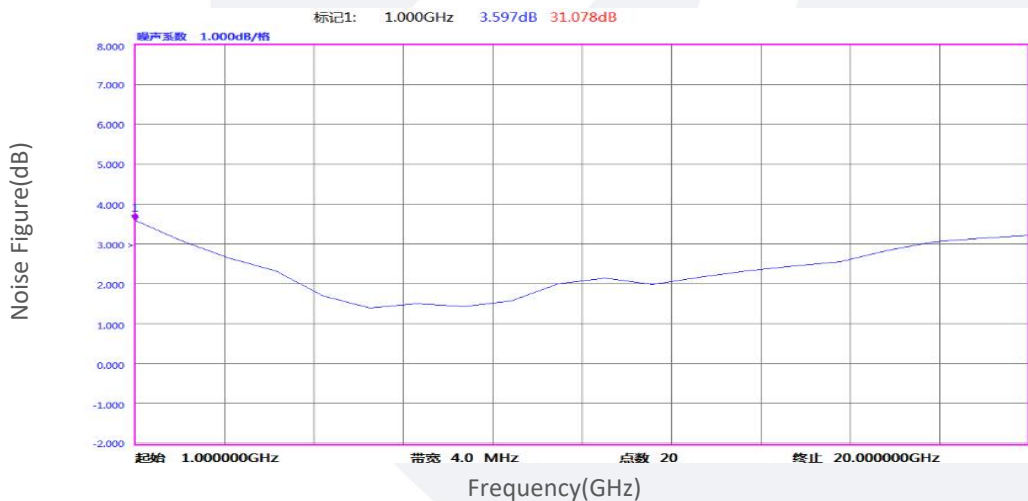
VSWR&Gain vs Frequency



Noise Figure vs Frequency



Noise Figure vs Frequency



典型曲线 Typical Performance Data:

P1dB vs Frequency

