

**Model:TLPA0.1G20G-25-31**
**Power Amplifier**
**0.1-20GHz,Gain:25dB,Psat:31dBm**
**Feature:**

- Ultra Wide Band: 0.1-20GHz
- Gain: 25dB
- Psat Output Power: 31dBm
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**电气特性 Electrical:**

参数Parameter	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	0.1-0.4			0.4-0.6			0.6-20			MHz
增益 Gain	24	25		24	25		25	27		dB
增益平坦度 Gain Flatness		±1			±1			±2		dB
线性输出功率P1dB	26	28		28	30		28	30.5		dBm
饱和输出功率Psat	29	30		30	32		30	32		dBm
输入驻波 Input VSWR		2.2			2.0			2.0		:1
输出驻波 Ounput VSWR		2.2			2.0			2.0		:1
输入功率 Input Power	+10									dBm
直流电压 DC Voltage	+8(可扩展+8~+12)									V DC
直流电流 DC Supply Current	1300									mA
阻抗 Impedance	50									Ohms

**机械特性 Mechanical :**

参数Parameter	指标 Value	单位 Units
输入输出接口 Input /Output Connector	SMA-Female/SMA-Female	
直流偏置 Bias	TBD	
尺寸 Size	44X52X13	mm
重量 Weight	/	g

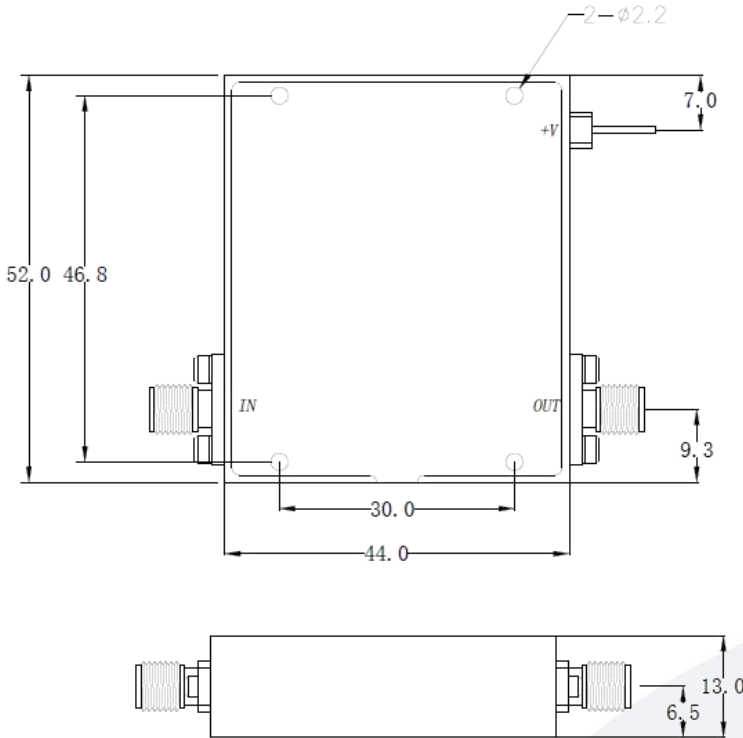

 Available 220V System  
 Benchtop Amplifier

**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
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



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

**温度环境 Environmental Conditions:**

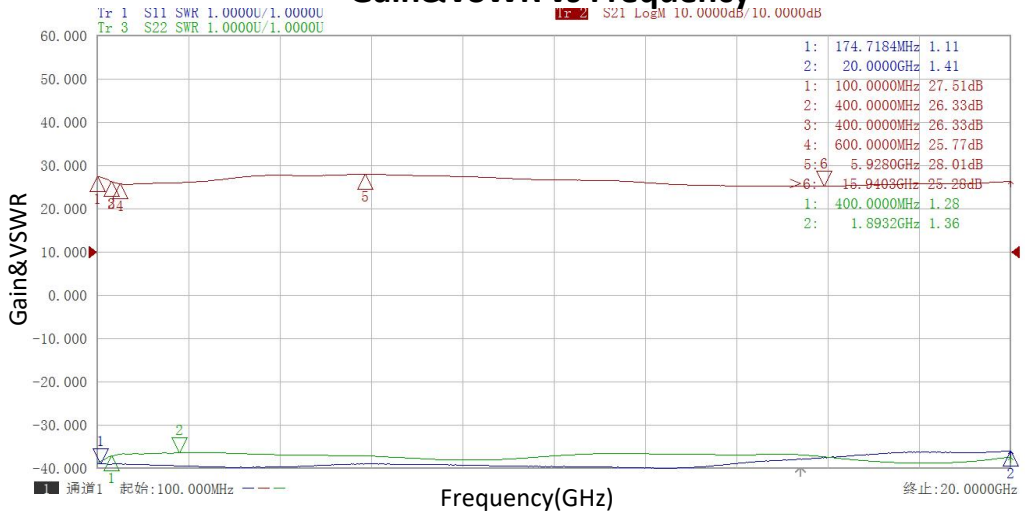
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**订货信息 Ordering Information:**

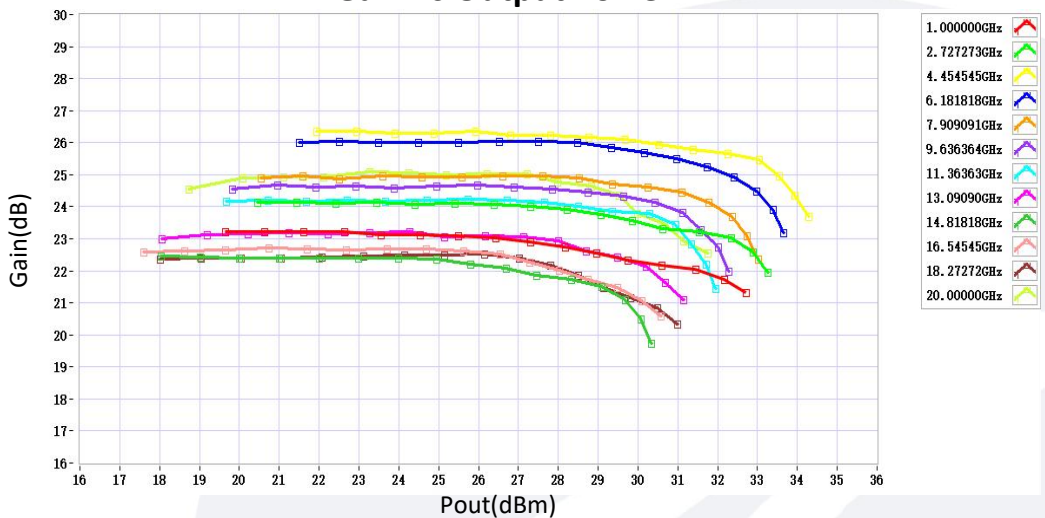
标准型号 Part Number	描述 Description	版本号Revision
TLPA0.1G20G-25-31	Power amplifier ,0.1-20GHz,Gain:25dB,Psat:21dBm, +8V DC,Without Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

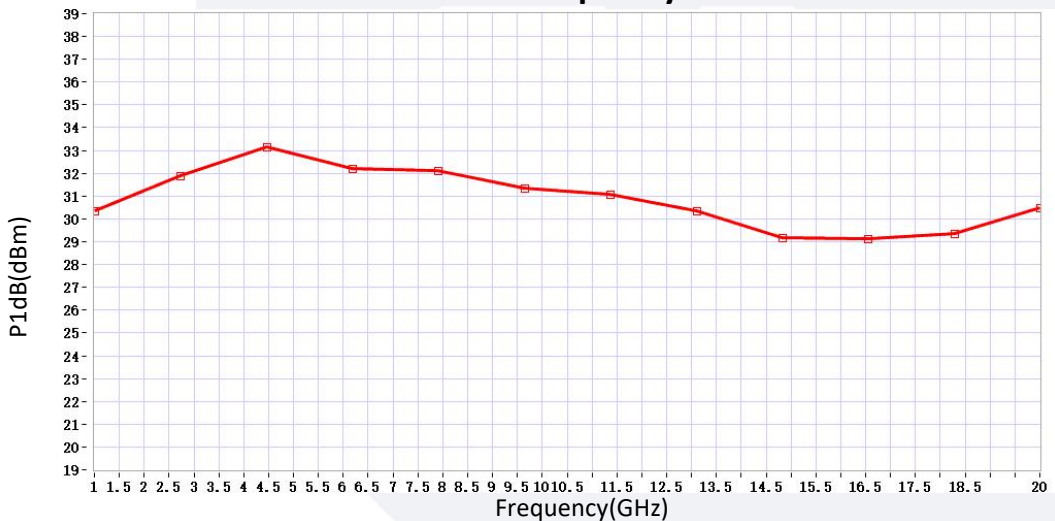
Gain&VSWR vs Frequency



Gain vs Output Power

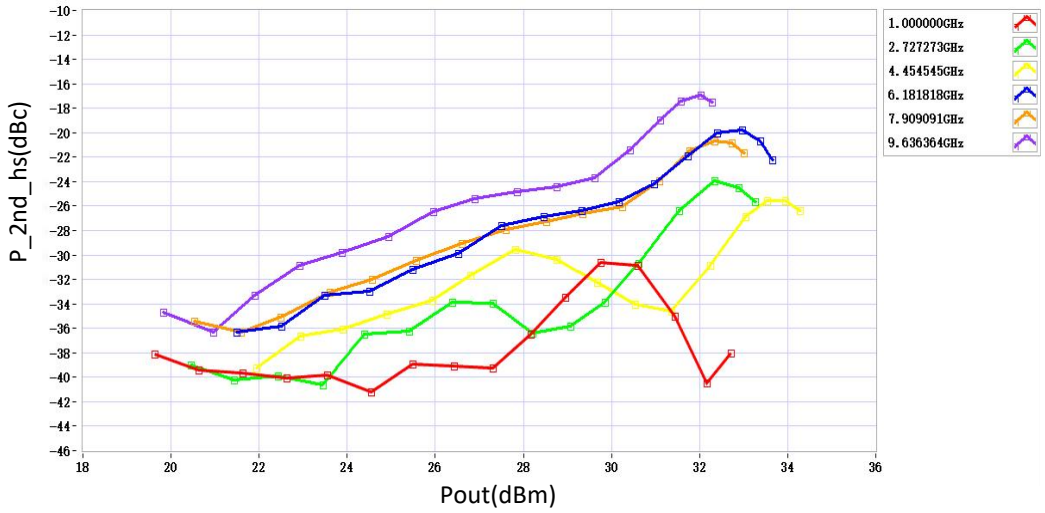


P1dB vs Frequency



典型曲线 Typical Performance Data:

2nd Harmonic vs Output Power



3rd Harmonic vs Output Power

