

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

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

电气特性 Electrical Specifications:

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			GHz
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 Output P1dB	26	28		28	30		28	30.5		dBm
饱和输出功率 Output Psat	29	30		30	32		30	32		dBm
输入驻波 Input VSWR		2.2			2			2		:1
输出驻波 Output VSWR		2.2			2			2		
直流电压 DC Voltage	+8									V DC
直流电流 DC Supply Current	1300									mA
阻抗 Impedance	50									Ohms

机械特性 Mechanical Specifications:

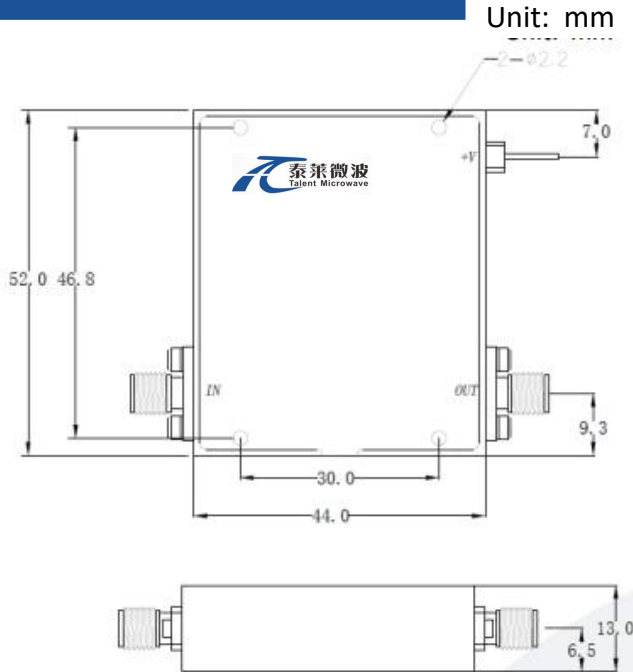
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female/SMA Female	
直流偏置 DC Bias	TBD	
尺寸 Size	44*52*13	mm
重量 Weight	/	g

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	10dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System
Benchtop Amplifier**

外形尺寸 Outline Drawing:



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

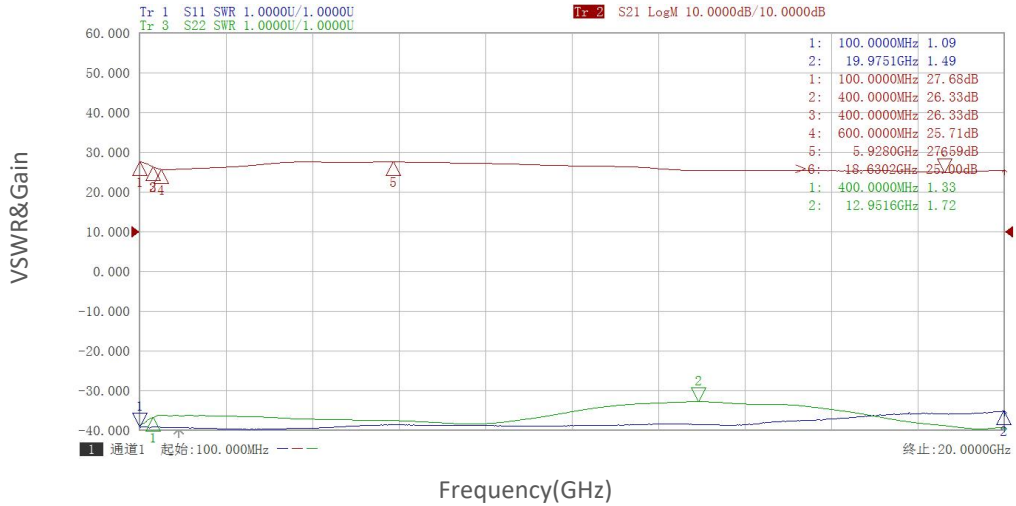
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half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

订货信息 Ordering Information:

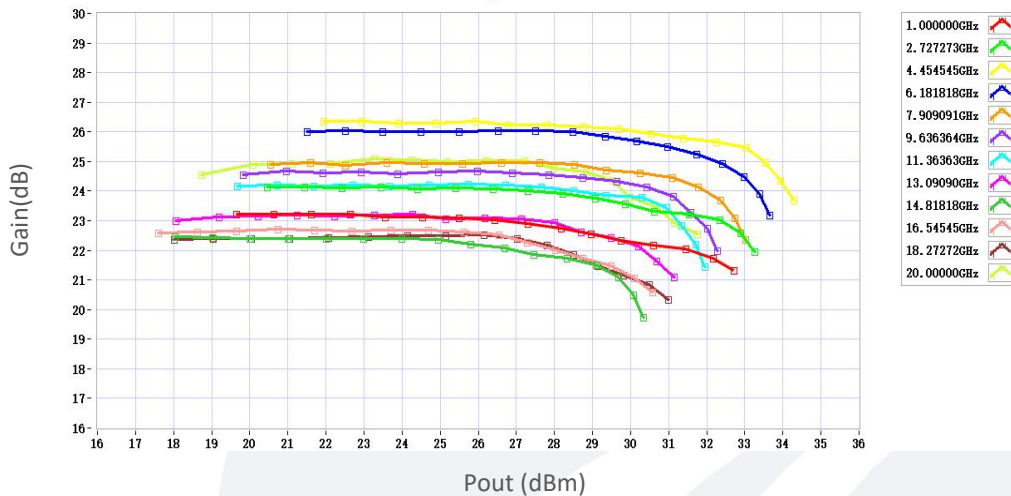
标准型号 Part Number	描述 Description	版本号Revision
TLPA0.1G20G-25-31	Power amplifier 0.1-20GHz, Gain:25dB, Psat:31dBm, +8V DC, Without Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

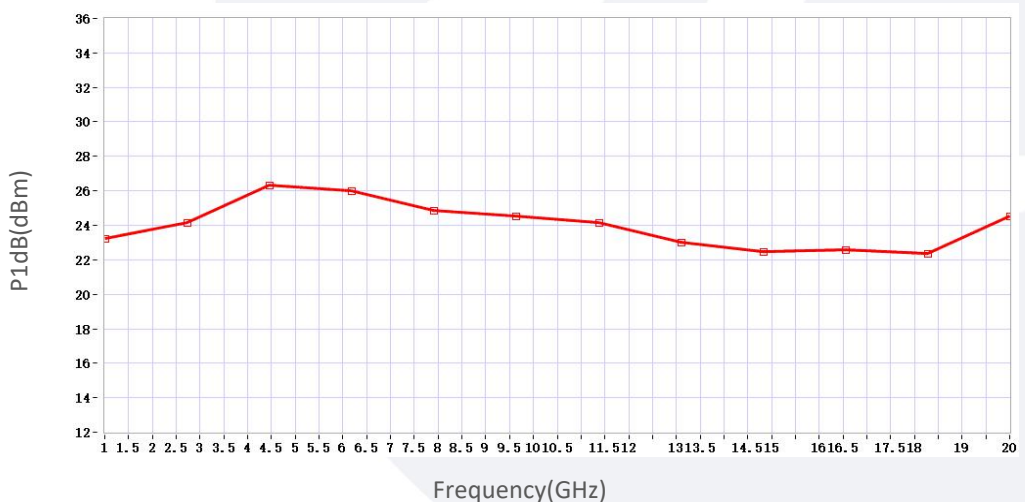
VSWR&Gain vs Frequency



Gain vs Output Power

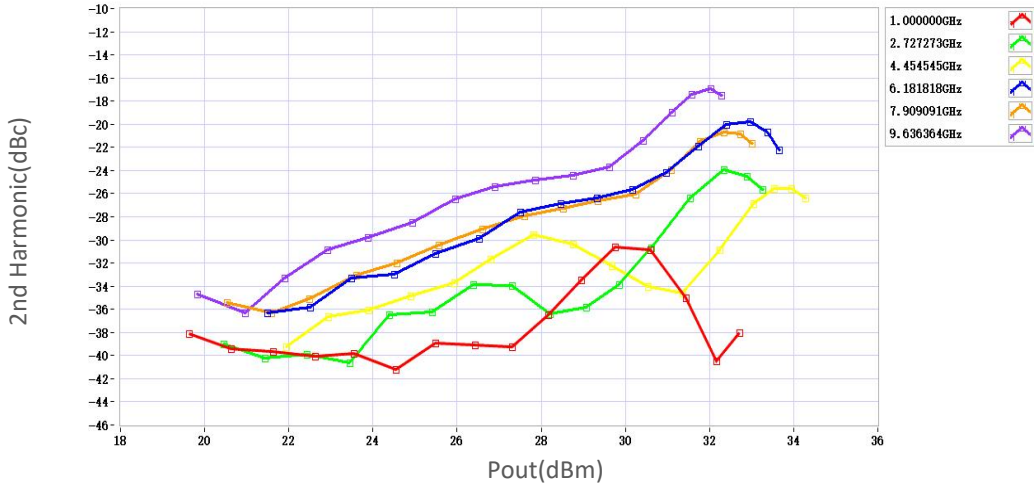


P1dB vs Frequency



典型曲线 Typical Performance Data:

2nd Harmonic vs Output Power



3rd Harmonic vs Output Power

