

Model:TLPA1G18G-40-33
Power Amplifier
1-18GHz, Gain:40dB Min, P1dB:33dBm
Feature:

- Ultra Wide Band: 1-18GHz
- Gain: 40dB Min
- Psat Output Power: 35 dBm Min
- Good Power and Gain Flatness
- 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	1-18			GHz
增益 Gain	40	41		dB
增益平坦度 Gain Flatness		±2.5	±3.0	dB
线性输出功率Output P1dB	33			dBm
饱和输出功率Output Psat		35		dBm
杂散 Non-Harmonic Spurious		-60		dBm
输入驻波 Input VSWR		2.0	2.5	:1
输出驻波 Output VSWR		2.0	2.5	:1
最大输入功率Input Max Power			5	dBm
直流电压 DC Voltage		+20		V DC
直流电流 DC Supply Current	0.8			A
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

参数Parameter	指标 Value	单位Units
输入输出接Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	58.5*38*12	mm
重量 Weight	/	g

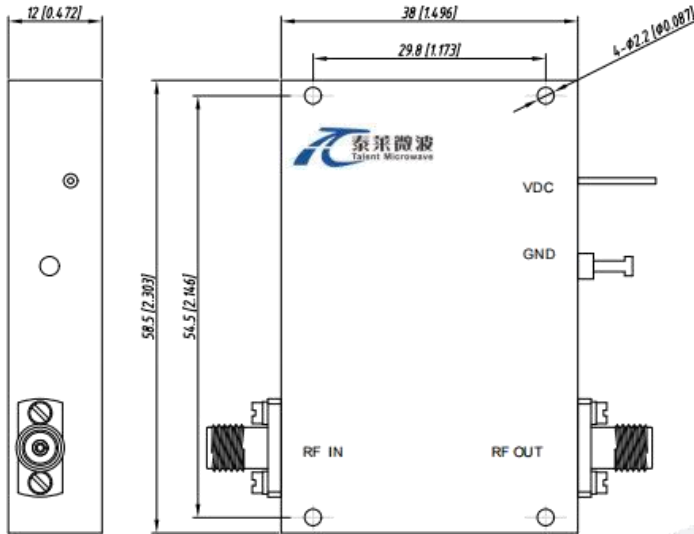

 Available 220V System
 Benchtop Amplifier

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	5 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**



温度环境 Environmental Conditions:

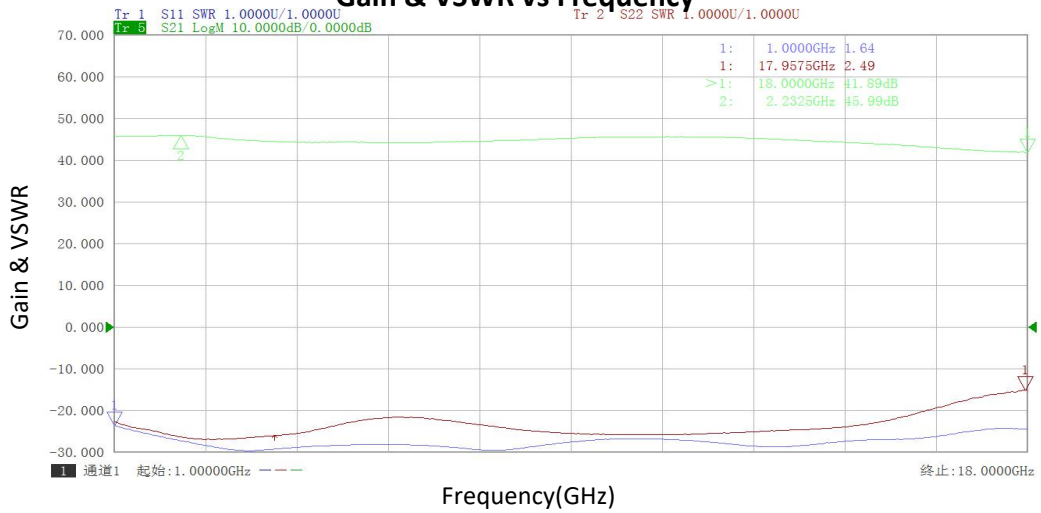
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10000		30000	feet
震动 Shock / Vibration(MIL-STD-810F)	Airborne			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

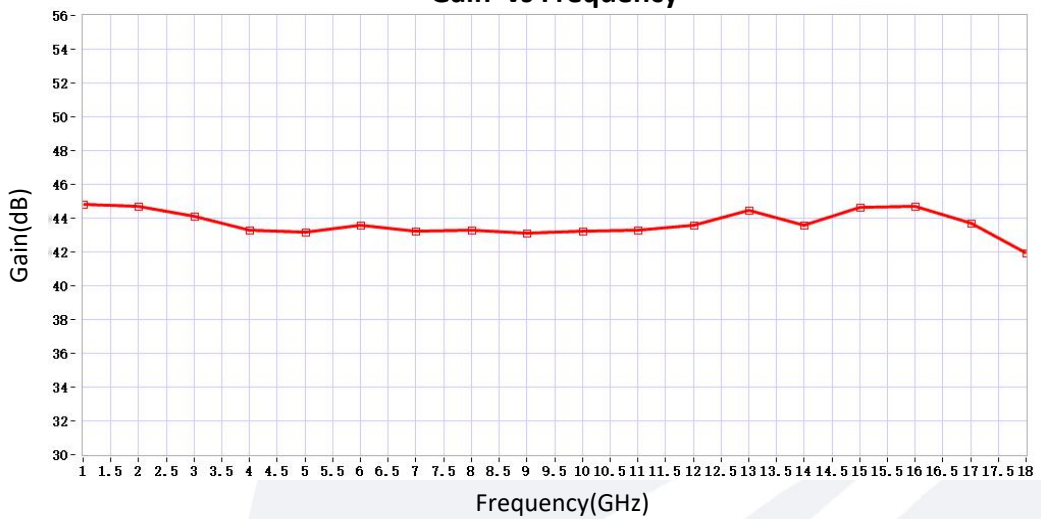
标准型号 Part Number	描述 Description	版本号Revision
TLPA1G18G-40-33	Power amplifier 1-18GHz,Gain:40dB Min,P1dB:33dBm,20V DC, Without Heatsink	Rev.1.1
TLPA1G18G-40-33-HS	Power amplifier 1-18GHz,Gain:40dB Min,P1dB:33dBm,20V DC, With Heatsink	Rev.1.1

典型曲线 Typical Performance Data :

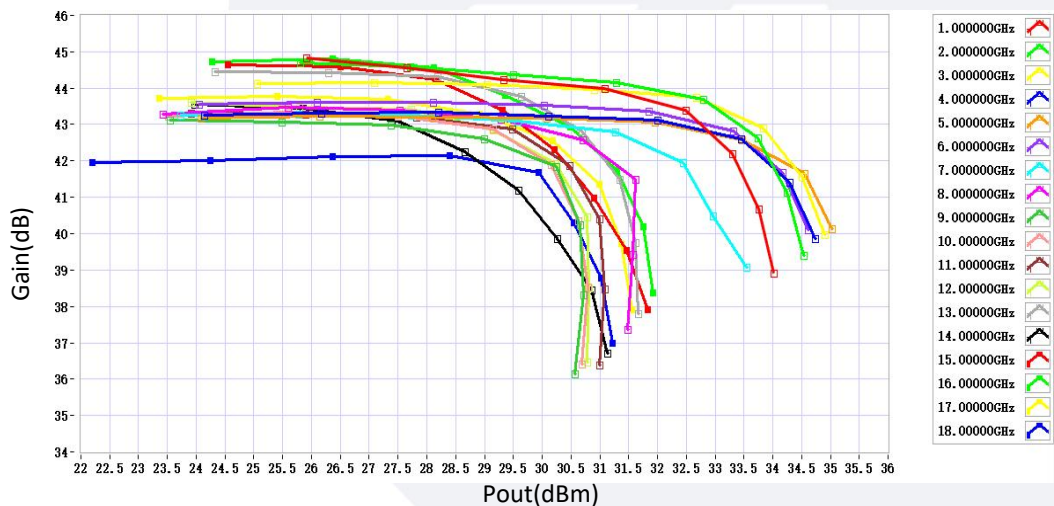
Gain & VSWR vs Frequency



Gain vs Frequency

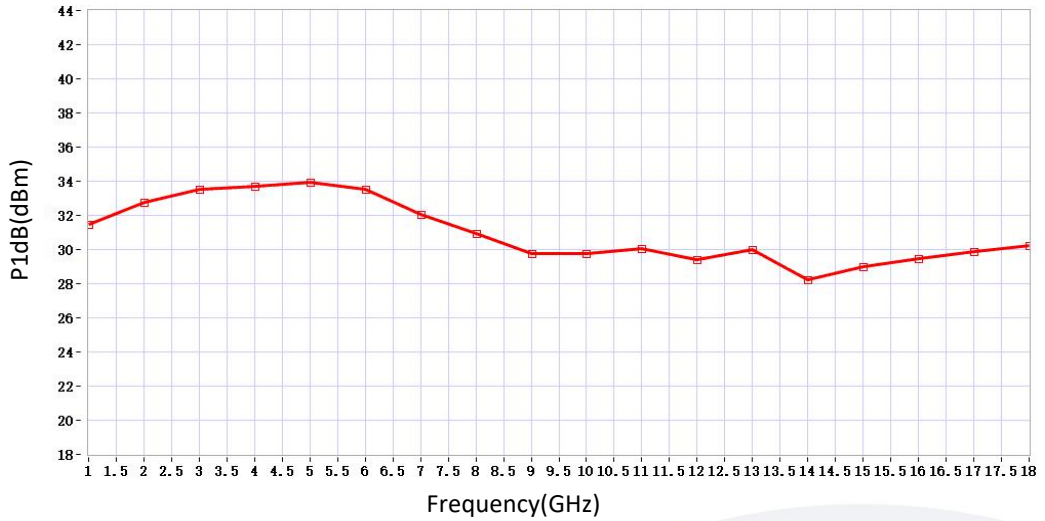


Gain vs Output Power



典型曲线 Typical Performance Data :

P1dB vs Frequency



P3dB vs Frequency

