

Model:TLPA1G18G-40-34
Power Amplifier
1-18GHz,Gain:40dB,Psat:34dBm
Feature:

- Ultra Wide Band: 1-18GHz
- Gain:40dB Min
- Psat Output Power:34dBm 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		1-18		GHz
增益 Gain	40	41		dB
增益平坦度 Gain Flatness		±2.5	±3	dB
线性输出功率 Output P1dB		31		dBm
饱和输出功率 Output Psat		34		dBm
杂散 Spurious@Psat		-60		dBc
输入驻波 Input VSWR		2	2.5	:1
输出驻波 Output VSWR		2	2.5	:1
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 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	Solder Pin	
尺寸 Size	58.5*38*12	mm
重量 Weight	/	g

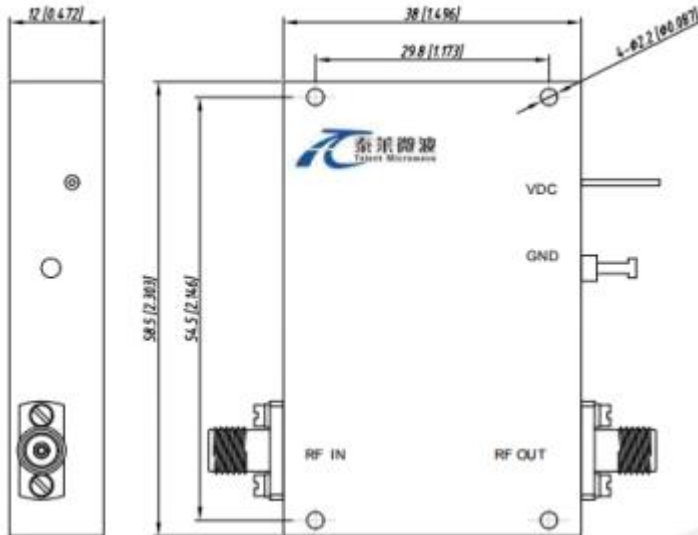
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	5dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V


 Available 220V System
 Benchtop Amplifier

外形尺寸 Outline Drawing:

Unit: mm



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



温度环境 Environmental Conditions:

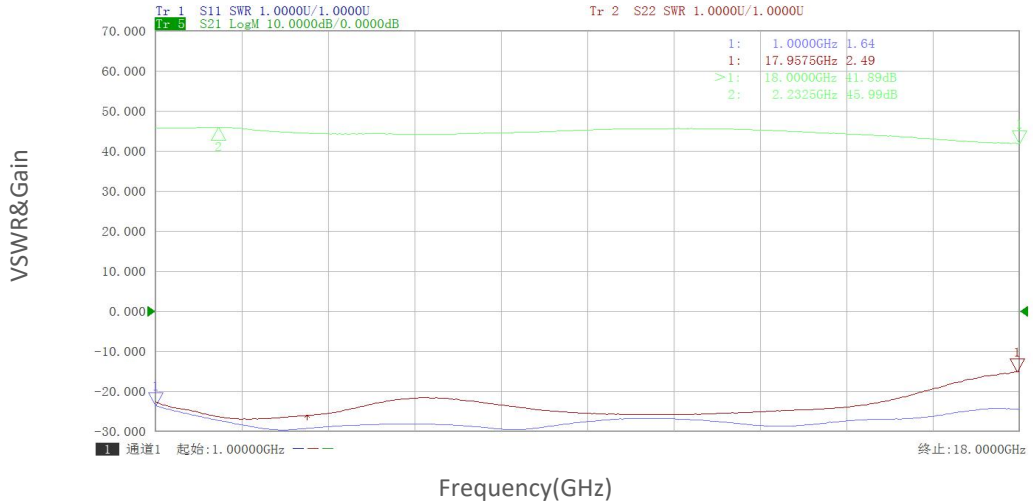
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10000		30000	feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

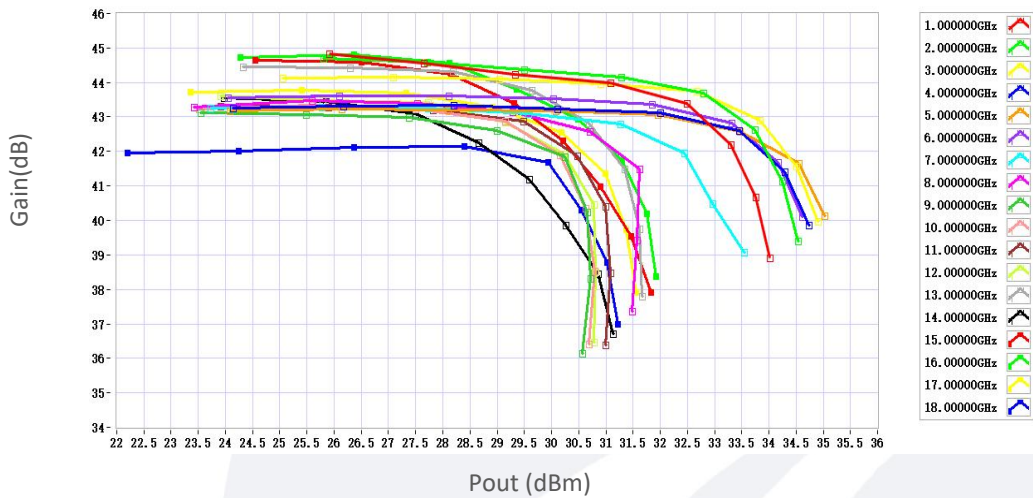
标准型号 Part Number	描述 Description	版本号Revision
TLPA1G18G-40-34	Power amplifier 1-18GHz,Gain:40dB,Psat:34dBm,+20V DC,Without Heatsink.	Rev.1.1
TLPA1G18G-40-34-HS	Power amplifier 1-18GHz,Gain:40dB,Psat:34dBm,+20V DC,With Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

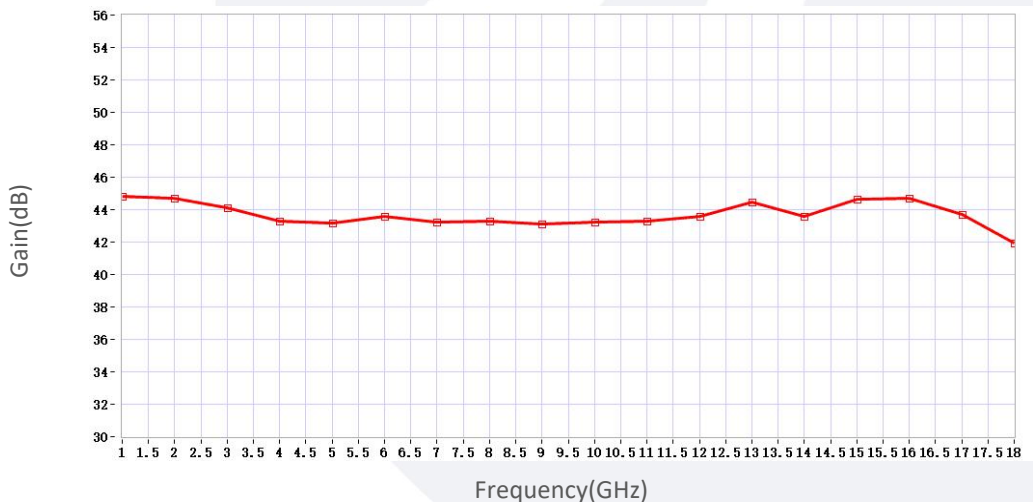
VSWR&Gain vs Frequency



Gain vs Output Power

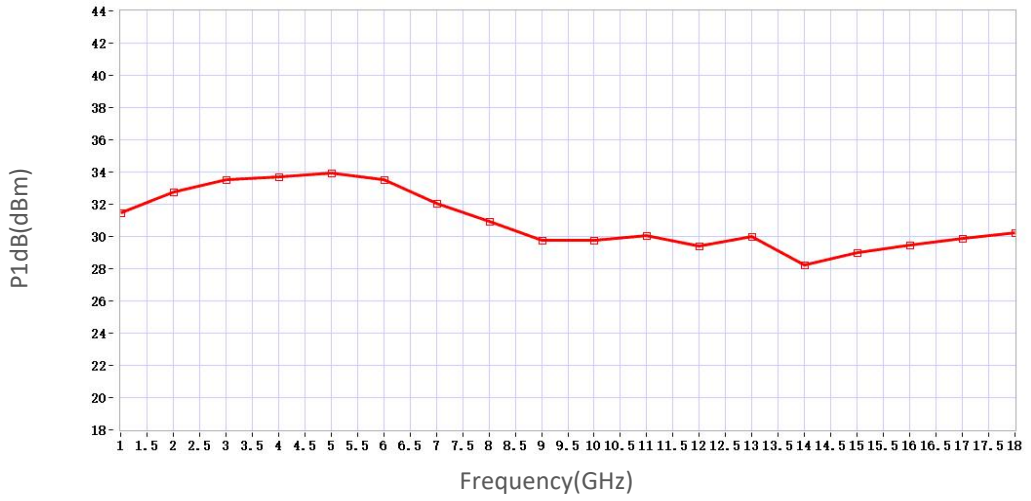


Gain vs Frequency



典型曲线 Typical Performance Data:

P1dB vs Frequency



P3dB vs Frequency

