

Model: TLPA0.1G18G-30-24
Power Amplifier
0.1-18GHz, Gain: 35dB, P1dB: 24dBm
Feature:

- Ultra Wide Band: 0.1-18GHz
- Gain: 30dB Min
- Output Psat: 27 dBm Typ
- 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	0.1-18			GHz
增益 Gain	30	35		dB
增益平坦度 Gain Flatness		±1.5		dB
增益随温度变化 Gain Variation Over Temperature		±1		dB
线性输出功率 Output P1dB	24			dBm
饱和输出功率 Output Psat		27		dBm
杂散 Spurious		-60		dBc
输入驻波 Input VSWR			2.2	:1
输出驻波 Output VSWR			2.2	:1
噪声系数 Noise Figure		5		dB
直流电压 DC Voltage		12		V DC
直流电流 DC Current		800	900	mA

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	
直流偏置 Bias	Solder Pin	
尺寸 Size	140*80*12	mm
重量 Weight	/	g

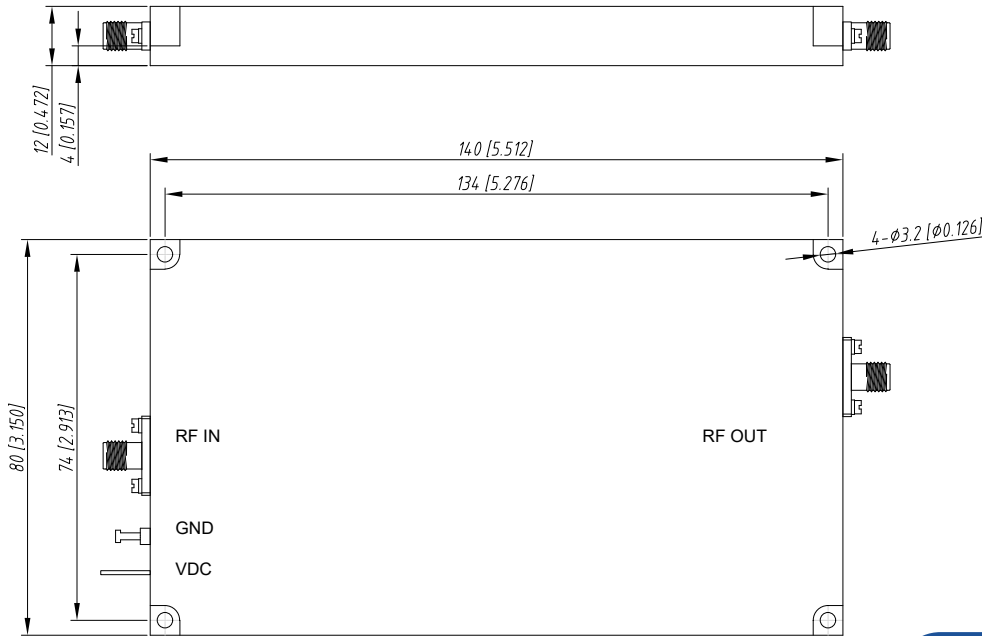

 Available 220V System
 Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

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

**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)	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
TLPA0.1G18G-30-24	Power amplifier 0.1-18GHz, Gain:35dB, P1dB:24dBm, 12V DC, Without Heatsink	Rev.1.0
TLPA0.1G18G-30-24-HS	Power amplifier 0.1-18GHz, Gain:35dB, P1dB:24dBm, 12V DC, With Heatsink	Rev.1.0