

Model:TLPA18G40G-28-20
**Broadband Power Amplifier
 18-40GHz,Gain:28dB,P1dB:22dBm**
Feature:

- Ultra Wide Band: 18-40 GHz
- Gain: 28 dB Typ
- P1dB: 22 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	18-40			GHz
增益 Gain	26	28		dB
增益平坦度 Gain Flatness		±2.0		dB
线性输出功率P1dB	20	22		dB
饱和输出功率 Psat		23		dBm
杂散Spurious		-60		dBc
噪声系数 Noise Figure		6		dB
输入驻波 Input VSWR		1.7	2.3	:1
输出驻波 Output VSWR		1.7	2.3	:1
最大输入功率Input Max Power			10	dBm
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		0.255		A
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.92mm Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	44*36*12	mm
重量 Weight	/	g

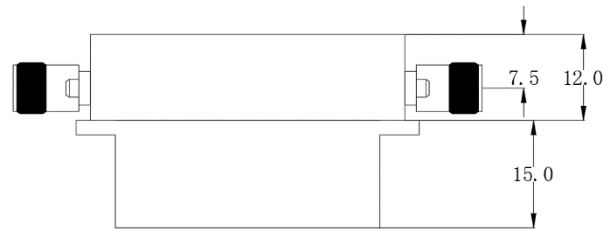
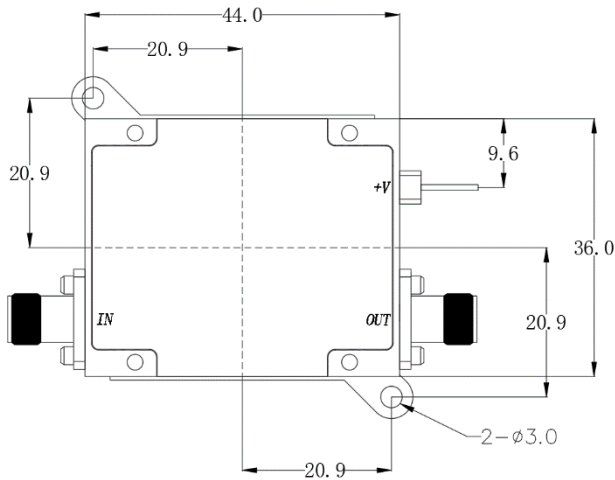

 Available 220V System
 Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+13V
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(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			