

Model: TLLA1G40G-36-50
Low Noise Amplifier
1-40GHz, , Gain:36 dB,P1dB:15dBm
Feature:

- Ultra Wide Band: 1-40GHz
- Gain: 36dB Typ
- Noise Figure: 4.0dB 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		1-40		GHz
增益 Gain	33	36	39	dB
增益平坦度 Gain Flatness		±3.0		dB
噪声系数 Noise Figure		4.0		dB
线性输出功率P1dB	12	15		dBm
饱和输出功率 Saturated Output Power (P _{sat})	13	17		dBm
输入驻波 Input VSWR		2.3		:1
输出驻波 Output VSWR		2.3		:1
杂散 Spurious		-60		dBc
最大输入功率 Input Max Power		10		dBm
直流电压 DC Voltage		5	12	V DC
直流电流 DC Supply Current		400		mA
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	
重量 Weight	30	g

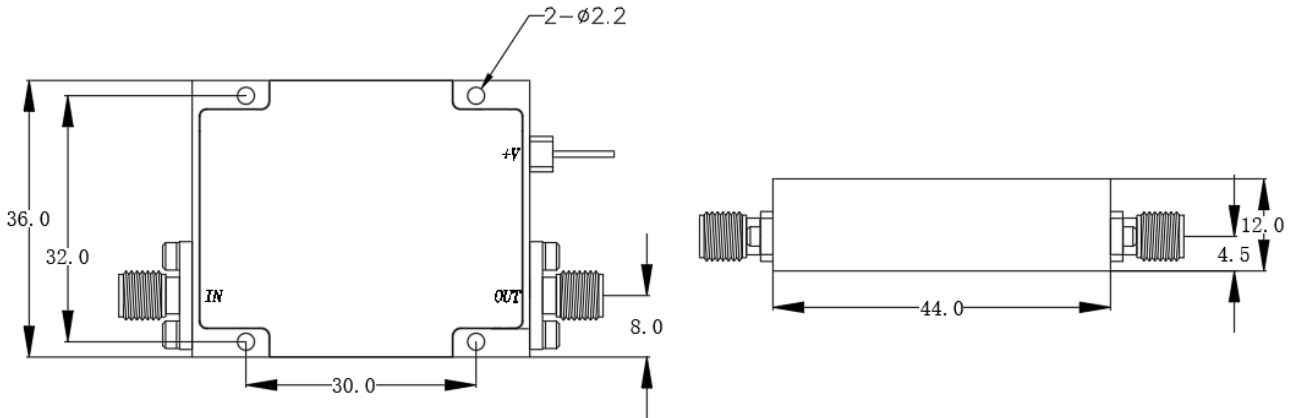

 Available 220V System
 Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+12V
输入功率 RF INPUT POWER	10dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm (inches)



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	100% RH at 35c, 95%RH at 40°C			%
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
TLLA1G40G-36-50	Low Noise Amplifier, 1-40GHz, Noise Figure:5.0dB, Gain:36dB,P1dB:15dBm, Without Heatsink	Rev.1.1
TLLA1G40G-36-50-HS	Low Noise Amplifier, 1-40GHz, Noise Figure:5.0dB, Gain:36dB,P1dB:15dBm ,With Heatsink	Rev.1.1