

Model:TLLA50K50G-15-80
Low Noise Amplifier
50KHz-50GHz, NF:7.0dB, Gain:15dB,P1dB:19dBm
Feature:

- Ultra Wide Band: 50KHz -50GHz
- Gain: 15 Typ
- Noise Figure: 7.0dB 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	50KHz-50GHz			GHz
增益 Gain	13	15		dB
增益平坦度 Gain Flatness		±2.5		dB
噪声系数 Noise Figure	50KHz-20GHz	4.0		dB
	20GHz-40GHz		7.0	dB
	40GHz-50GHz		10.0	dB
线性输出功率 Output P1dB	15	20		dBm
三阶交调 Output IP3		30		dBm
输入驻波 Input VSWR		2.0		:1
输出驻波 Output VSWR		2.0		:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		200		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	2.4mm Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	35.3*40.3*12	mm
重量 Weight	55	g

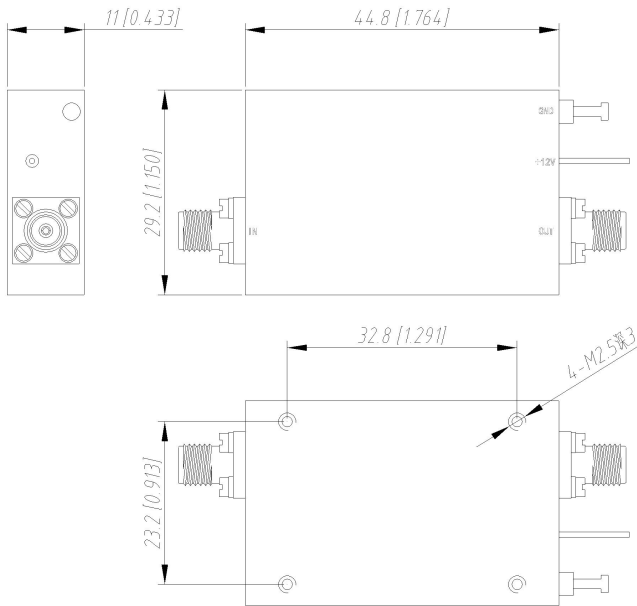

 Available 220V System
 Benchtop Amplifier

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	+10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm/inchs



*****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	-40		+75	°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
TLLA50K50G-15-80	Low Noise Amplifier, 50KHz-50GHz, Noise Figure:7.0 dB, Gain:15 dB,P1dB:20dBm,12V DC,Without Heatsink	Rev.1.2
TLLA50K50G-15-80-HS	Low Noise Amplifier, 50KHz-50GHz, Noise Figure:7.0 dB, Gain:15 dB,P1dB:20dBm,12V DC,With Heatsink	Rev.1.2