

Model:TLLA8G12G-30-10
Low Noise Amplifier
8-12GHz, NF:1.0 dB, Gain:30dB,P1dB:9dBm
Feature :

- Ultra Wide Band: 8-12GHz
- Gain: Gain: 30 Min
- Noise Figure: 1.0dB Max
- 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	8-12			GHz
增益 Gain	30			dB
增益平坦度 Gain Flatness		±0.5		dB
噪声系数 Noise Figure			1.0	dB
线性输出功率 Output P1dB	9			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		50		mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

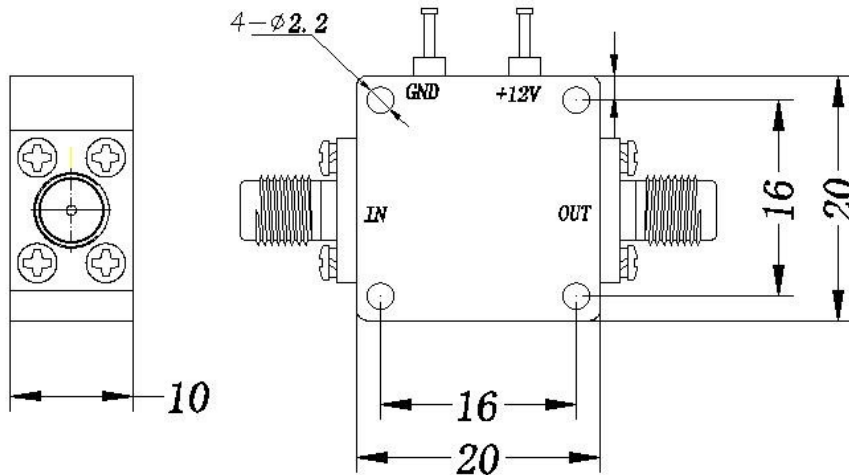
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	20*20*10	mm
重量 Weight	/	g


绝对最大值 Absolute Maximum Ratings:

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

外形尺寸 Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

*****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	-55		+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
TLLA8G12G-30-10	Low Noise Amplifier, 8-12GHz, Noise Figure:1.0dB, Gain:30dB,P1dB:9dBm,12V DC,Without Heatsink	Rev.1.1
TLLA8G12G-30-10-HS	Low Noise Amplifier, 8-12GHz, Noise Figure:1.0 dB, Gain:30 dB,P1dB:9dBm,12V DC,With Heatsink	Rev.1.1