

**Model: TLLA1G1.6G-32-13**
**Low Noise Amplifier**
**1-1.6GHz, NF:0.5dB, Gain:32dB, P1dB:13dBm**
**Feature:**

- Ultra Wide Band: 1-1.6GHz
- Gain: 32dB Typ
- Noise Figure: 0.5dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**电气特性 Electrical Specifications:**

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	1-1.6			GHz
增益 Gain	27	32		dB
增益平坦度 Gain Flatness		±1.0	±1.75	dB
噪声系数 Noise Figure			0.5	dB
线性输出功率 Output P1dB	12	13		dBm
输入驻波 Input VSWR		1.4	1.8	:1
输出驻波 Output VSWR		1.4	1.8	:1
直流电压 DC Voltage	4.85	5	6	V DC
直流电流 DC Supply Current		50	60	mA
阻抗 Impedance	50			Ohms

**机械特性 Mechanical Specifications:**

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	17.8*20*8.35	mm
重量 Weight	11	g

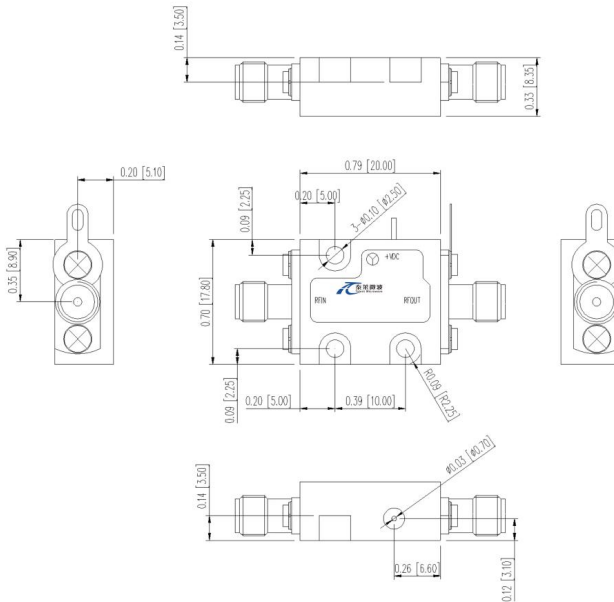
**绝对最大值 Absolute Maximum Ratings:**

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	15 dBm
ESD灵敏度 ESD sensitivity (HBM)	Class 0, passed 150V


**Available 220V System Benchtop Amplifier**

**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	-40		+70	°C
存储温度 Non-operating Temperature	-65		+150	°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
TLLA1G1.6G-32-13	Low Noise Amplifier, 1-1.6GHz, Noise Figure:0.5dB, Gain:32 dB,P1dB:13dBm,5V DC,Without Heatsink	Rev.1.1
TLLA1G1.6G-32-13-HS	Low Noise Amplifier, 1-1.6GHz, Noise Figure:0.5dB, Gain:32 dB,P1dB:13dBm,5V DC,With Heatsink	Rev.1.1