

## Model: TLLA1G4G-25-09

## Low Noise Amplifier

1-4GHz, NF:0.9dB, Gain:25dB, P1dB:20dBm

### Feature:

- Ultra Wide Band: 1-4GHz
- Gain: 25dB Min
- Noise Figure: 0.9dB 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	1-4			GHz
增益 Gain	25			dB
增益平坦度 Gain Flatness		±1.5		dB
噪声系数 Noise Figure			0.9	dB
线性输出功率 Output P1dB	15	20		dBm
输出三阶交调 Output IP3		25		dBm
输入驻波 Input VSWR		2		:1
输出驻波 Output VSWR		2		: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 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	32.4*29.5*11	mm
重量 Weight	/	g

### 绝对最大值 Absolute Maximum Ratings:

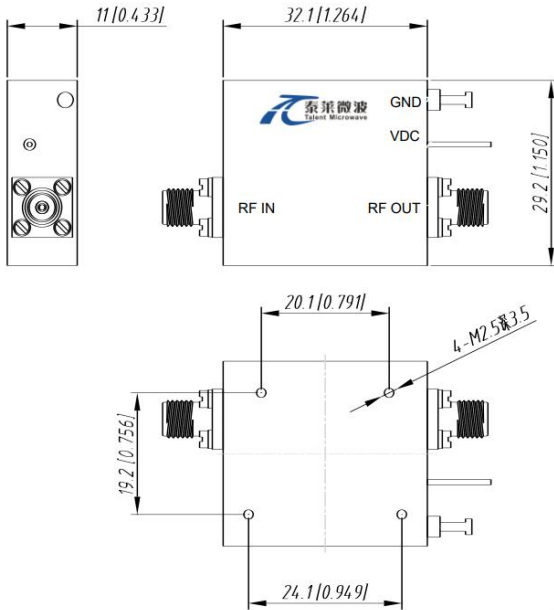
参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



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	-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			

**订货信息 Ordering Information:**

标准型号 Part Number	描述 Description	版本号 Revision
TLLA1G4G-25-09	Low Noise Amplifier, 1-4GHz, Noise Figure:0.9dB, Gain:25 dB,P1dB:20dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA1G4G-25-09-HS	Low Noise Amplifier, 1-4GHz, Noise Figure:0.9dB, Gain:25 dB,P1dB:20dBm,+12V DC,With Heatsink	Rev.1.1