

## Model: TLLA1G4G-25-09

## Low Noise Amplifier

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

### Feature:

- Ultra Wide Band: 1-4GHz
- Gain: 25 Min
- Noise Figure: 0.9dB 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	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P1dB	15	20		dBm
三阶交调 IP3		25		dBm
输入驻波 Input VSWR		2.0		:1
输出驻波 Output VSWR		2.0		:1
最大输入功率 Input Max Power			10	dBm
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	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	32.4*29.5*11	mm
重量 Weight	/	g



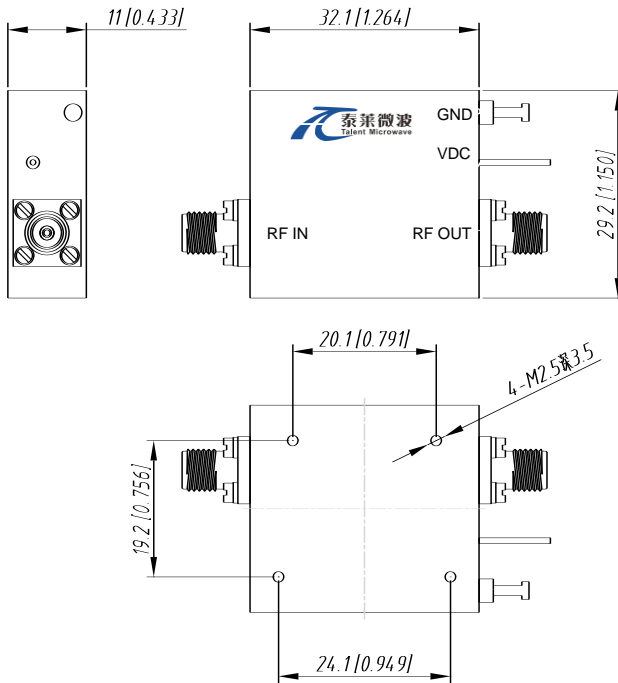
Available 220V System  
Benchtop Amplifier

### 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(Inches)



**\*\*\*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	-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:0.9 dB, 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

典型曲线 Typical Performance Data:

Gain&Return Loss

