

**Model:TLLA0.03G6G-25-30**
**Low Noise Amplifier**
**0.03-6GHz, NF:3.0dB, Gain:25dB,P1dB:15dBm**
**Feature:**

- Ultra Wide Band: 0.03-6GHz
- Gain: 25dB Min
- Noise Figure: 3.0dB 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	0.03-6			GHz
增益 Gain	25	27	30	dB
增益平坦度 Gain Flatness		±1.5		dB
噪声系数 Noise Figure			3.0	dB
线性输出功率 Output P1dB	15			dBm
输入驻波 Input VSWR			2	:1
输出驻波 Output VSWR		2	2.5	:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		130		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	32.1*29.2*11	mm
重量 Weight	≤45	g

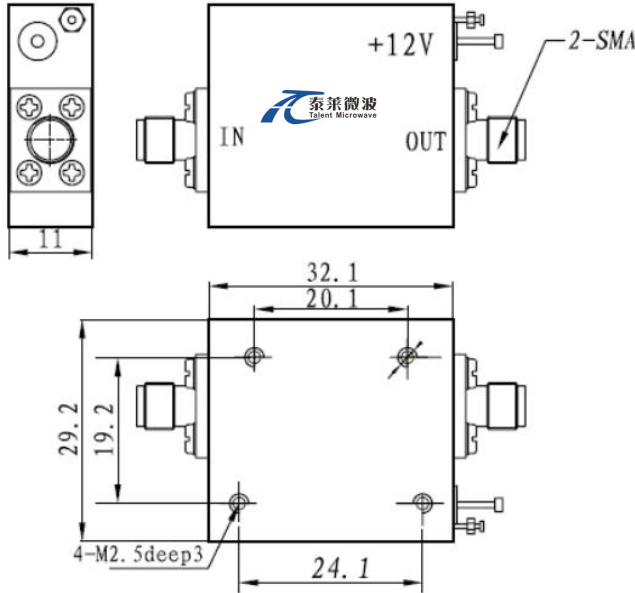
**绝对最大值 Absolute Maximum Ratings:**

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15V
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



**\*\*\*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
TLLA0.03G6G-25-30	Low Noise Amplifier,0.03-6GHz, Noise Figure:3.0dB, Gain:25 dB,P1dB:15dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.03G6G-25-30-HS	Low Noise Amplifier,0.03-6GHz, Noise Figure:3.0dB, Gain:25 dB,P1dB:15dBm,+12V DC,With Heatsink	Rev.1.1