

**Model:TLLA8G12G-35-20**
**Low Noise Amplifier**
**8-12GHz, NF:2.0dB, Gain:35dB,P1dB:27dBm**
**Feature:**

- Ultra Wide Band: 8-12GHz
- Gain: 35dB Typ
- Noise Figure: 2.0dB Typ
- 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	8-12			GHz
增益 Gain	34	35		dB
噪声系数 Noise Figure		2	2.5	dB
线性输出功率 Output P1dB	25.5	27		dBm
饱和输出功率 Output Psat	26.5	28		dBm
输入驻波 Input VSWR		1.8		:1
输出驻波 Output VSWR		1.8		:1
监测功率阈值 Monitor Power Threshold(Control NC)		20		dBm
监测输出TTL Monitor Output TTL		0/+3.3		V
直流电压 DC Voltage	12	15	16	V DC
直流电流 DC Supply Current		320		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	35*45*9.5	mm
重量 Weight	/	g

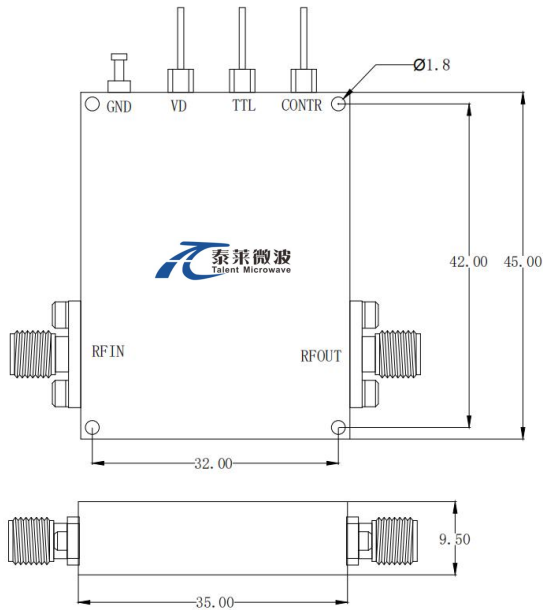
**绝对最大值 Absolute Maximum Ratings:**

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+16V
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		10,000		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-35-20	Low Noise Amplifier, 8-12GHz, Noise Figure:2.0dB, Gain:35 dB,P1dB:27dBm,+15V DC,Without Heatsink	Rev.1.1
TLLA8G12G-35-20-HS	Low Noise Amplifier, 8-12GHz, Noise Figure:2.0dB, Gain:35 dB,P1dB:27dBm,+15V DC,With Heatsink	Rev.1.1