

**Model:TLLA35G50G-43-25-GA**
**Low Noise Amplifier**  
**35-50GHz, NF:2.5dB, Gain:43dB,P1dB:15dBm**
**Feature:**

- Ultra Wide Band: 35-50GHz
- Gain: 43dB Typ
- Noise Figure: 2.5dB 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	35-50			GHz
增益 Gain	40	43		dB
增益平坦度 Gain Flatness		±3.0		dB
噪声系数 Noise Figure		2.5	3.0	dB
线性输出功率 Output P1dB	13	15		dBm
饱和输出功率 Output Psat		16		dBm
增益调节范围 Gain Adjustment Range	40	42		dB
输入驻波 Input VSWR		4		:1
输出驻波 Output VSWR		2		:1
衰减器控制电压 Attenuator Control Voltage	-5		0	V DC
直流电压 DC Voltage	5.5	6	8	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	2.4mm Female/2.4mm Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	50*60*12	mm
重量 Weight	/	g

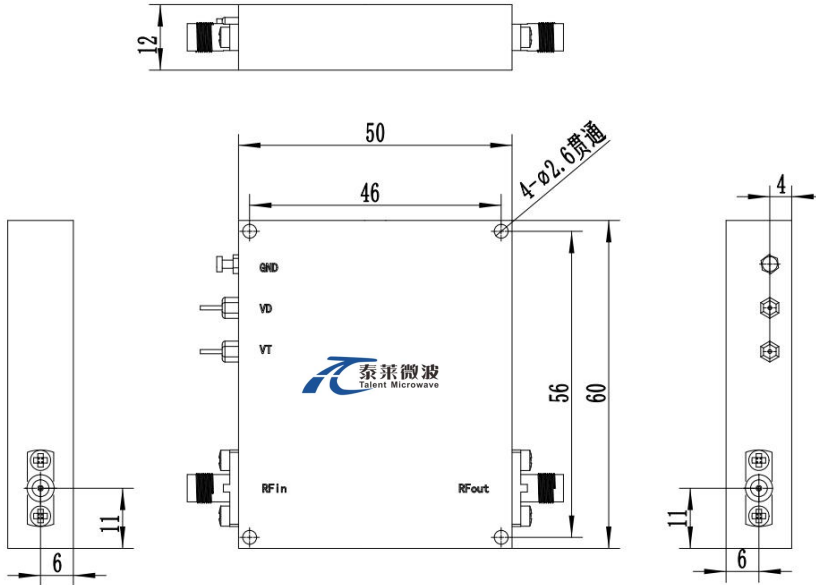
**绝对最大值 Absolute Maximum Ratings:**

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+8 V
输入功率 RF Input Power	5 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
TLLA35G50G-43-25-GA	Low Noise Amplifier, 35-50GHz, Noise Figure:2.5dB, Gain:43 dB,P1dB:15dBm,+6V DC,Without Heatsink	Rev.1.1
TLLA35G50G-43-25-GA-HS	Low Noise Amplifier, 35-50GHz, Noise Figure:2.5dB, Gain:43 dB,P1dB:15dBm,+6V DC,With Heatsink	Rev.1.1