

Model: TLLA1G18G-55-25
Low Noise Amplifier
1-18GHz, NF:3dB, Gain:50dB, P1dB:15dBm
Feature:

- Ultra Wide Band: 1-18GHz
- Gain: 50dB Min
- Noise Figure: 3dB 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	1-18			GHz
增益 Gain	50			dB
增益平坦度 Gain Flatness		±3		dB
噪声系数 Noise Figure		3		dB
线性输出功率P1dB		15		dBm
杂散 Spurious			-60	dBc
谐波 Harmonics			-10	dBc
输入驻波 Input VSWR		2.0		:1
输出驻波 Output VSWR		2.0		:1
直流电压 DC Voltage		+12		V DC
功耗 Power Consumption		3		W
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

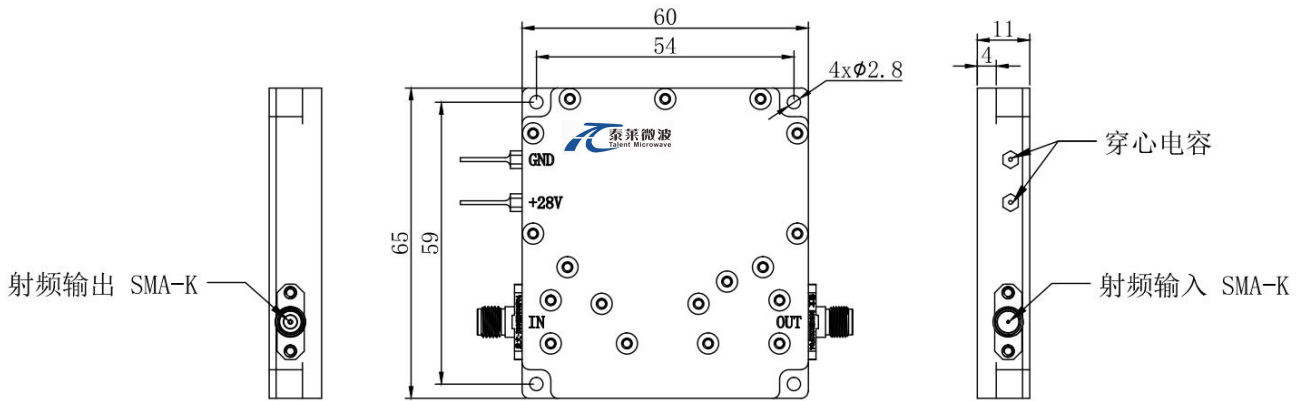
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	60*65*11	mm
重量 Weight	200	g


**Available 220V System
Benchtop Amplifier**
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
输入功率 RF Input Power	-30 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



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	-40		+60	°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
TLLA1G18G-55-25	Low Noise Amplifier, 1-18GHz, Noise Figure:3dB, Gain:50 dB,P1dB:15dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA1G18G-55-25-HS	Low Noise Amplifier, 1-18GHz, Noise Figure:3dB, Gain:50 dB,P1dB:15dBm,+12V DC,With Heatsink	Rev.1.1