

Model: TLLA6G18G-38-25
Low Noise Amplifier
6-18GHz, NF:2.5dB, Gain:38dB, P1dB:22dBm
Feature:

- Ultra Wide Band: 6-18GHz
- Gain: 38dB 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	6-18			GHz
增益 Gain	35	38	41	dB
增益平坦度 Gain Flatness		±2	±2.5	dB
噪声系数 Noise Figure		2	3	dB
线性输出功率 Output P1dB	20	22		dBm
输出三阶交调 Output IP3	27	30		dBm
杂散 Spurious			-60	dBc
反向隔离 Reversse Isolation	40	45		dB
输入驻波 Input VSWR		1.8	2.5	:1
输出驻波 Output VSWR		1.8	2.5	:1
直流电压 DC Voltage	10	12	15	V DC
直流电流 DC Supply Current	250	280	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	1.5*1*0.4	Inch
重量 Weight	/	g

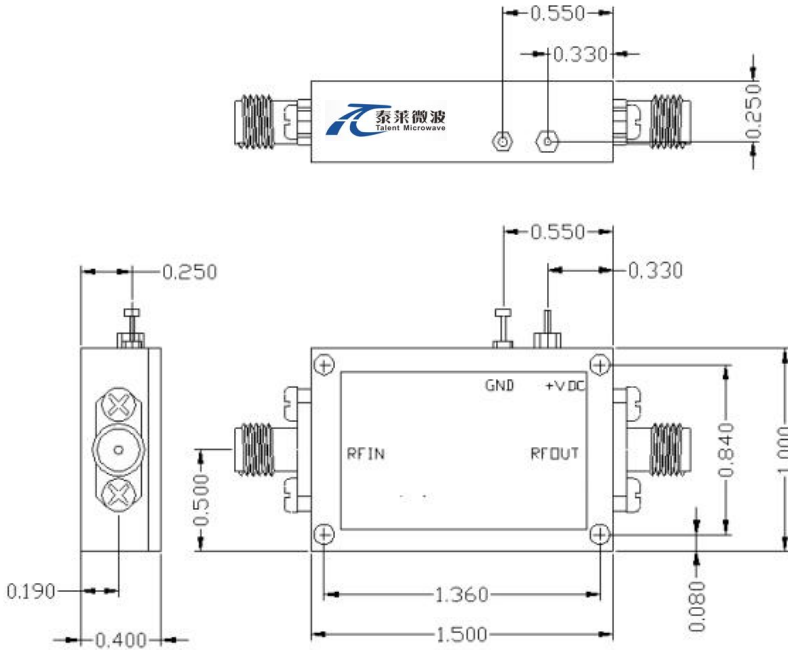
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15 V
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(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		+75	°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
TLLA6G18G-38-25	Low Noise Amplifier, 6-18GHz, Noise Figure:2.5dB, Gain:38 dB,P1dB:22dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA6G18G-38-25-HS	Low Noise Amplifier, 6-18GHz, Noise Figure:2.5dB, Gain:38 dB,P1dB:22dBm,+12V DC,With Heatsink	Rev.1.1