

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

- Ultra Wide Band: 6-18 GHz
- Gain: 38 dB
- Noise Figure: 2.5dB
- Unconditional stability
- 50 Ohm Matched Input / Output

电气特性 Electrical:

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
OTR上的增益平坦度 Gain Flatness over OTR		±2		dB
噪声系数 Noise Figure		2.5	3.0	dB
杂散 Spurious			-60	dBc
反向隔离 Reverse Isolation	40	45		dB
输出功率1dB压缩点 Output P1dB	+20	+22		dBm
输出功率IP3 Output IP3	+27	+30		dBm
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
直流供电 DC power supply	250	280	320	mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

参数Parameter	指标 Value
输入/输出接口 Input/Output Connector	SMA Female
供电引脚 Power Supply Pin	Solder Pin
尺寸 Size	1.5inches*1.0inches*0.4 inches

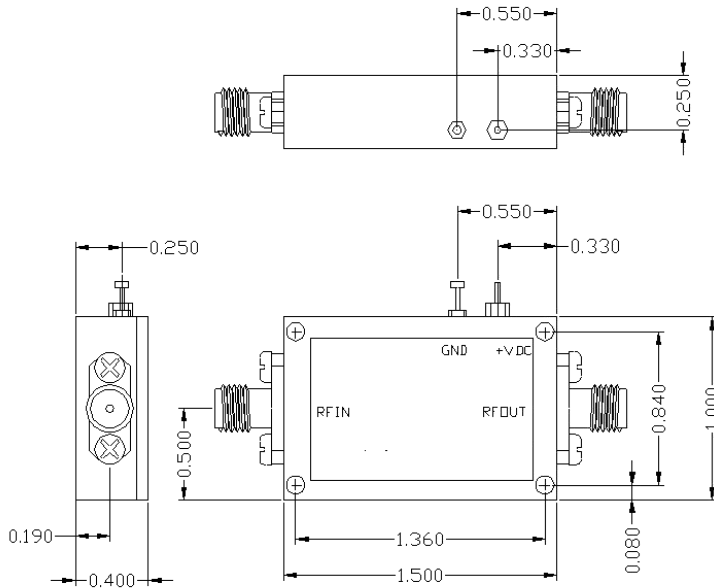

 Available 220V System
 Benchtop Amplifier

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

外形尺寸 Outline Drawing:

Unit: Inches



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,6-18G,NF:2.5dB,Gain:38dB,P1dB:22dBm,15V DC,Without Heatsink	Rev.1.1