

Model:TLLA18G50G-45-60
Low Noise Amplifier
18-50GHz, NF:6.0dB, Gain:50dB,P1dB:13dBm
Feature:

- Ultra Wide Band: 18-50GHz
- Gain: 50dB Typ
- Noise Figure: 6.0dB Typ
- Good Power and Gain Flatness
- 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	18-50			GHz
增益 Gain	45	50		dB
增益平坦度 Gain Flatness		±4.0	±5.0	dB
噪声系数 Noise Figure		6.0	8.0	dB
线性输出功率P1dB	12	13		dBm
三阶交调 OIP3		24		dBm
输入驻波 Input VSWR		2.0	3.0	:1
输出驻波 Output VSWR		2.0	3.0	:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		600		mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

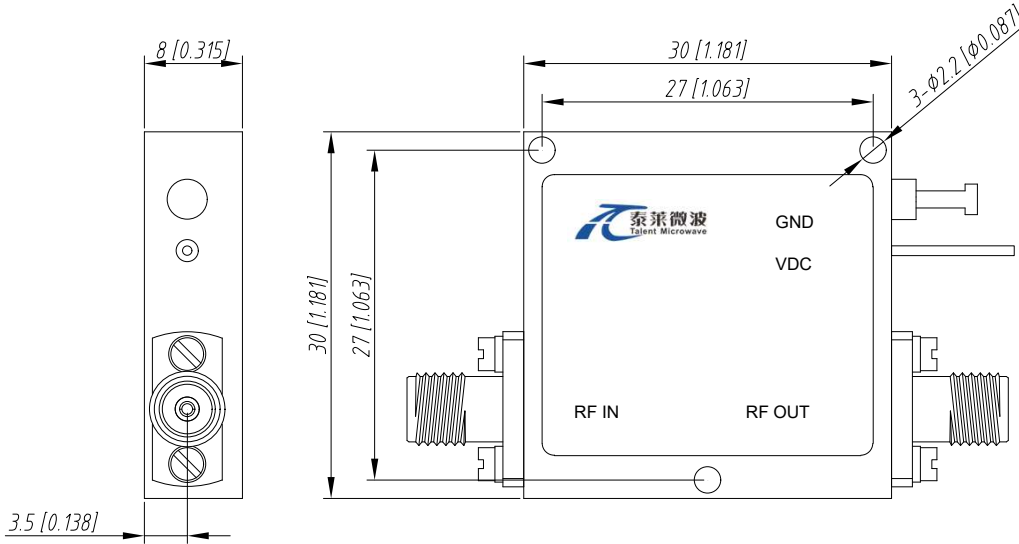
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.4 Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	30*30*10.2	mm
重量 Weight	/	g


绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	
输入功率 RF INPUT POWER	-20 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		+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
TLLA18G50G-45-60	Low Noise Amplifier, 18-50GHz, Noise Figure:6.0 dB, Gain:50 dB,P1dB:13dBm,12V DC,Without Heatsink	Rev.1.1
TLLA18G50G-45-60-HS	Low Noise Amplifier, 18-50GHz, Noise Figure:6.0 dB, Gain:50 dB,P1dB:13dBm,12V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

