

Model:TLLA37G42G-20-50

L-Band Low Noise Amplifier
37-42GHz, NF:5.0dB, Gain:20dB,P1dB:15dBm

Feature:

- Ultra Wide Band: 37-42GHz
- Gain:20dB Min
- Noise Figure: 5.0dB Max
- 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	37-42			GHz
增益 Gain	20			dB
噪声系数 Noise Figure			5.0	dB
线性输出功率P1dB	15			dBm
输入功率 Input Power		-5	0	dBm
杂散 Spurious	50			dBc
输入驻波 Input VSWR		2.0	2.5	: 1
输出驻波比 VSWRout		2.0	2.5	
直流电压 DC Voltage		+12		V DC
直流供电 DC power supply			0.5	A
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	2.4mm Female
直流偏置 Bias	Solder Pin
尺寸 Size	60mm*65mm*11mm
重量 Weight	200

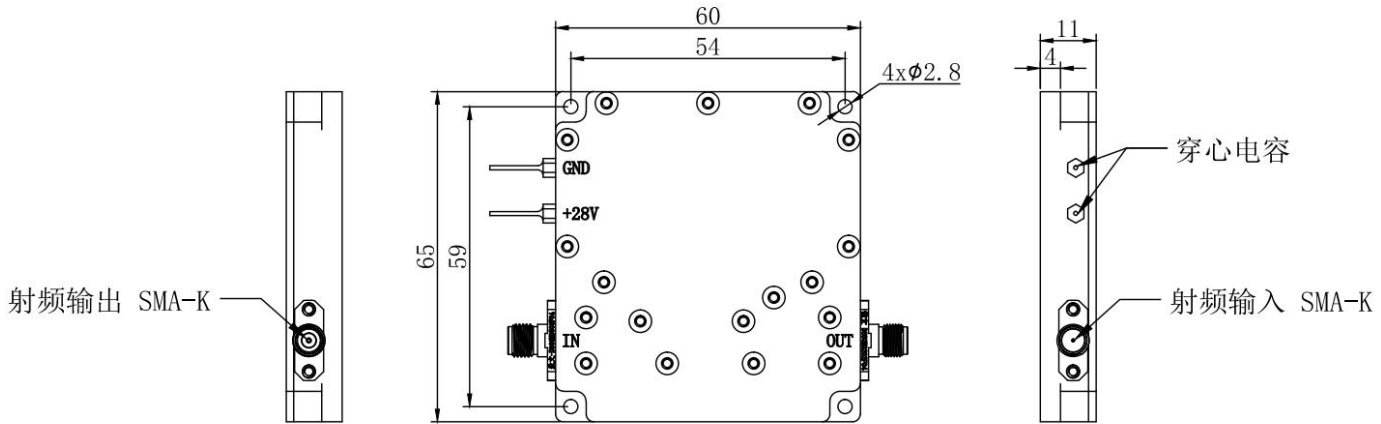


绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	12V
输入功率 RF INPUT POWER	0 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
TLLA37G42G-20-50	Low Noise Amplifier, 37-43GHz, Noise Figure:5.0 dB, Gain:20 dB,P1dB:15dBm,12V DC,Without Heatsink	Rev.1.1
TLLA37G42G-20-50-HS	Low Noise Amplifier, 37-43GHz, Noise Figure:5.0 dB, Gain:20 dB,P1dB:15dBm,12V DC,With Heatsink	Rev.1.1