

## Model:TLLA0.4G50G-40-60

## Low Noise Amplifier 0.4-50GHz, NF:6.0dB, Gain:40dB,P1dB:18dBm

### Feature:

- Ultra Wide Band: 0.4-50GHz
- Gain: 40dB Typ
- Noise Figure: 6.0dB 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	0.4-50			GHz
增益 Gain		40		dB
增益平坦度 Gain Flatness		±2.5	±4	dB
噪声系数 Noise Figure		6		dB
线性输出功率 Output P1dB		18		dBm
输出三阶交调 Output IP3		21		dBm
杂散 Spurious		-60		dBc
输入驻波 Input VSWR		2	2.5	:1
输出驻波 Output VSWR		2	2.5	:1
直流电压 DC Voltage	8	12		V DC
直流电流 DC Supply Current		500		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	2.4mm Female/2.4mm Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	35.3*40.3*12	mm
重量 Weight	48	g

### 绝对最大值 Absolute Maximum Ratings:

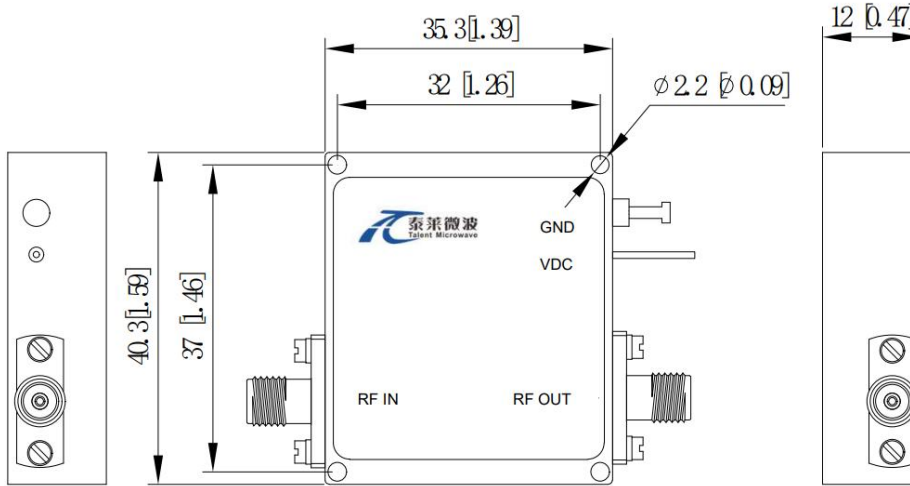
参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	-15 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



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	-25		+85	°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
TLLA0.4G50G-40-60	Low Noise Amplifier, 0.4-50GHz, Noise Figure:6.0dB, Gain:40 dB,P1dB:18dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.4G50G-40-60-HS	Low Noise Amplifier, 0.4-50GHz, Noise Figure:6.0dB, Gain:40 dB,P1dB:18dBm,+12V DC,With Heatsink	Rev.1.1