

Model: TLLA18G40G-40-50

Low Noise Amplifier

18-40GHz, NF:5.0dB, Gain:40dB, P1dB:20dBm

Feature:

- Ultra Wide Band: 18-40GHz
- Gain: 40dB Min
- Noise Figure: 5.0dB Max
- 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	18-40			GHz
增益 Gain	40			dB
增益平坦度 Gain Flatness		±4		dB
输入功率 Input Power			5	dBm
噪声系数 Noise Figure		3	5	dB
线性输出功率 P1dB	20			dBm
杂散抑制 Spurious	60			dBc
谐波 Harmonics	15			dBc
输入驻波 Input VSWR		2.0		:1
直流电压 DC Voltage		+12		V DC
功耗			1.5	W
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	2.92mm-K	
直流偏置 Bias	Solder Pin	
尺寸 Size	/	mm
重量 Weight	≤200	g



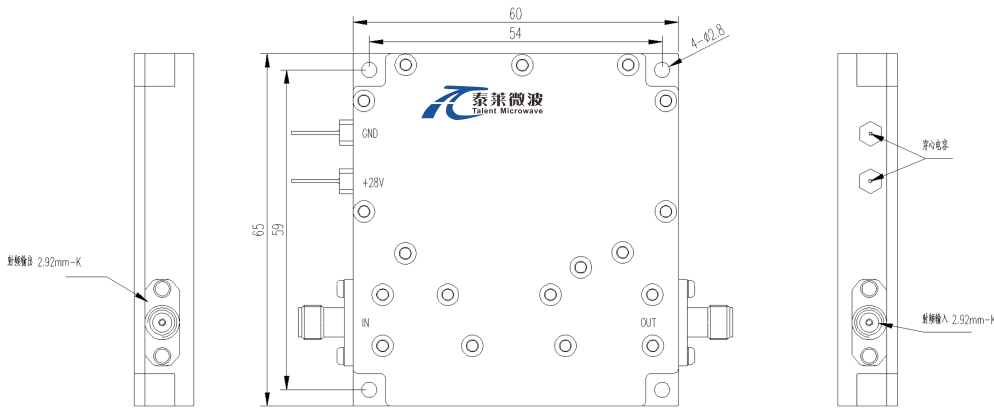
Available 220V System
Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+12V
输入功率 RF INPUT POWER	5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm



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
TLLA18G40G-40-50	Low Noise Amplifier, 18-40GHz, Noise Figure:5.0dB, Gain:40dB,P1dB:20dBm,12V DC,Without Heatsink	Rev.1.1