

Model:TLPA0.1G20G-30-31
Power Amplifier
0.1-20GHz, Gain:30dB, Psat:31dBm
Feature:

- Ultra Wide Band: 0.1-20GHz
- Gain: 30dB
- Psat Output Power: 31dBm
- 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	0.1-20			GHz
功率增益 Power Gain	30			dB
小信号增益@2-8GHz		35		dB
小信号增益平坦度 Gain Flatness		±2		dB
饱和输出功率 Psat		31		dBm
P-1输出功率		30		dBm
输入功率Input Power		0	5	dBm
噪声系数 Noise Figure		2.0		dB
杂散 Supurious@Pout=35dBm	60			dBc
谐波抑制 Harmonic@Pout=35dBm	10			dBc
输入驻波 Input VSWR		2.0		:1
输出驻波 Output VSWR		2.0		:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current			0.5	A
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	SMA-Female/SMA-Female	
直流偏置 Bias	TBD	
重量 Weight	≤500	g

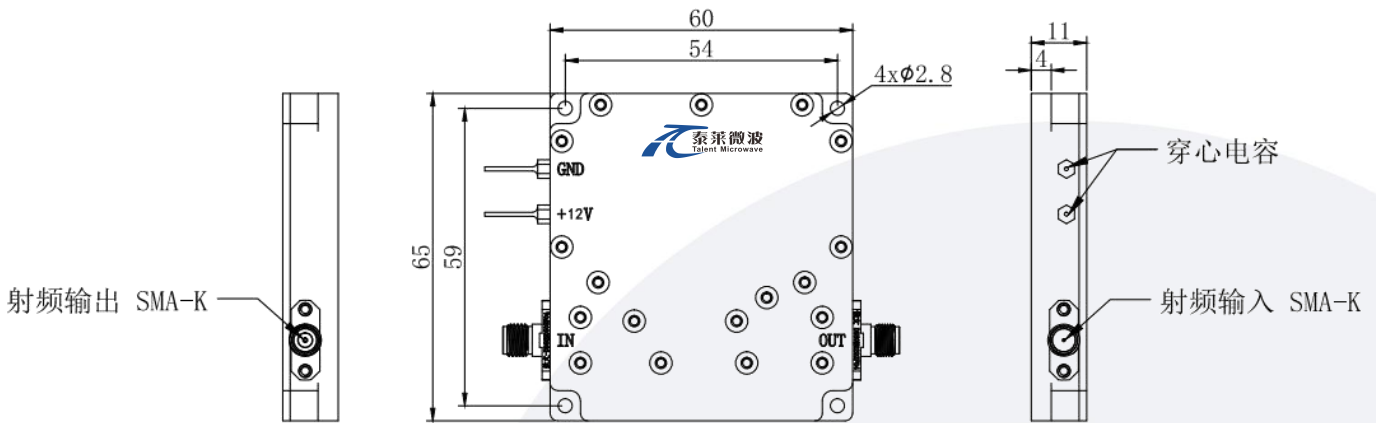

**Available 220V System
Benchtop Amplifier**

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	PIN1: +12V PIN2: GND
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(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	-20		+75	°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
TLPA0.1G20G-30-31	Power amplifier 0.1-20GHz, Gain:30dB, Psat:31dBm, NF:2.0dB, +12V DC, Without Heatsink	Rev.1.1
TLPA0.1G20G-30-31-HS	Power amplifier 0.1-20GHz, Gain:30dB, Psat:31dBm, NF:2.0dB, +12V DC, With Heatsink	Rev.1.1