Suzhou Talent Microwave,Inc
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Model:TLPA18G40G-35-31

Power Amplifier 18-40GHz,Gain:35dB,P1dB:29dBm

Feature:

- Ultra Wide Band: 18-40GHz
- Gain: 35dB Min
- Output Power: 31 dBm 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		18-40		GHz
小信号增益 small signal Gain	35	40		dB
增益平坦度 Gain Flatness		±3.0		dB
线性输出功率Output P1dB	27	29		dBm
饱和输出功率Output Psat		31		dBm
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		2.2		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	2.92mm Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	60*50*12	mm
重量 Weight	/	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	
输入功率 RF INPUT POWER	3 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

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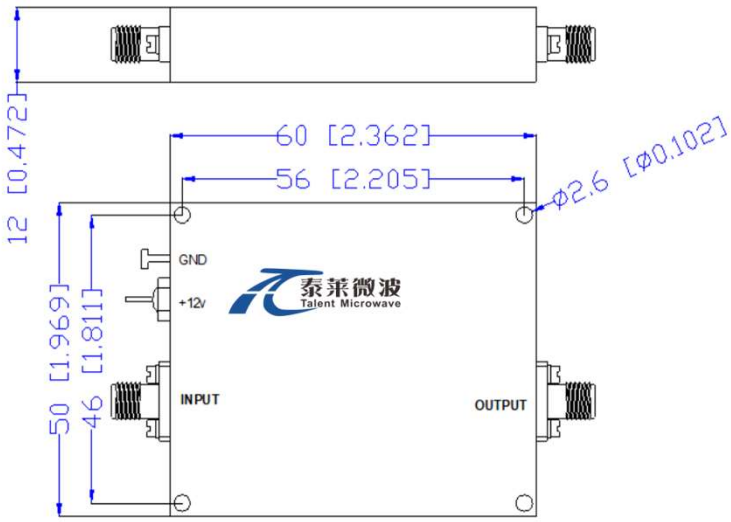
外形尺寸Outline Drawing:

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		+85	℃
存储温度 Non-operating Temperature	-55		+125	℃
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
TLPA18G40G-35-31	Power amplifier 18-40GHz,Gain:35dB,P1dB:29dBm,12V DC, Without Heatsink	Rev.2.0
TLPA18G40G-35-31-HS	Power amplifier 18-40GHz,Gain:35dB,P1dB:29dBm,12V DC, With Heatsink	Rev.2.0

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