

**Model: TLP A0.05G12G-30-30**
**Power Amplifier**
**0.05-12GHz, Gain: 33dB, P1dB: 30dBm**
**Feature:**

- Ultra Wide Band: 0.05-12GHz
- Gain: 30dB Min
- Psat 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	0.05-12			GHz
增益 Gain	30	33		dB
增益平坦度 Gain Flatness		±2.0		dB
线性输出功率 P1dB	30			dBm
饱和输出功率 Psat		31		dBm
二次谐波 Second Harmonic		-20		dBc
杂散 Non-Harmonic Spurious		-60		dBc
输入驻波 Input VSWR		2.0		:1
输出驻波 Output VSWR		2.0		:1
噪声系数 Noise Figure		8		dB
直流电压 DC Voltage		24		V DC
直流电流 DC Supply Current		790	1000	mA

**机械特性 Mechanical :**

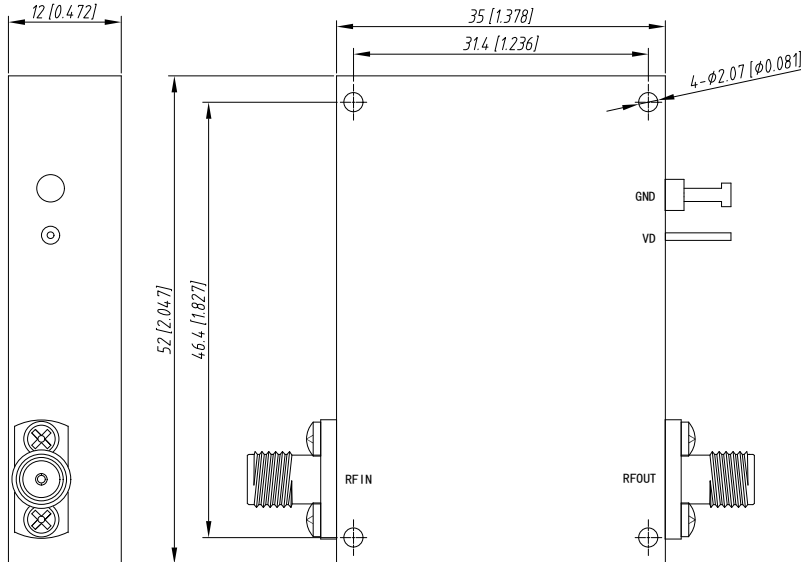
参数Parameter	指标 Value	单位 Units
输入输出接口 Input / Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	35*52*12	mm
重量 Weight	50	g


**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	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	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity	100%RH at 35°C, 95%RH at 40°C			
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
TLPA0.05G12G-30-30	Power amplifier 0.05-12GHz, Gain:33dB, P1dB:30dBm, 24V DC, Without Heatsink	Rev.1.0
TLPA0.05G12G-30-30-HS	Power amplifier 0.05-12GHz, Gain:33dB, P1dB:30dBm, 24V DC, With Heatsink	Rev.1.0

测试曲线 Typical Performance:

Gain & VSWR VS. Frequency

