

**Model:TLPA0.8G18G-37-37**
**Power Amplifier**  
**0.8-18GHz,Gain:37dB,SMA-Female**
**Feature:**

- Ultra Wide Band: 0.8-18GHz
- Gain: 37dB Min
- Psat Output Power: 37 dBm Min
- Built-in protection Circuits
- 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	0.8-18			GHz
增益Power Gain	37			dB
增益平坦度 Power Gain Flatness			5	dB p-p
饱和输出功率 Power Output Psat	37			dBm
谐波 Harmonics 2 <sup>nd</sup> /3 <sup>rd</sup>		-20		dBc
回波损耗 Input Return Loss	10			dB
杂散抑制 Non Harmonic Spurious			-60	dBc
负载失配保护Load VSWR Protection	3.0:1( < 1minute at rated pout)			
直流电压 DC Voltage		28		V DC
直流电流 DC Supply Current			3	A DC
阻抗 Impedance	50			Ohms

**机械特性 Mechanical :**

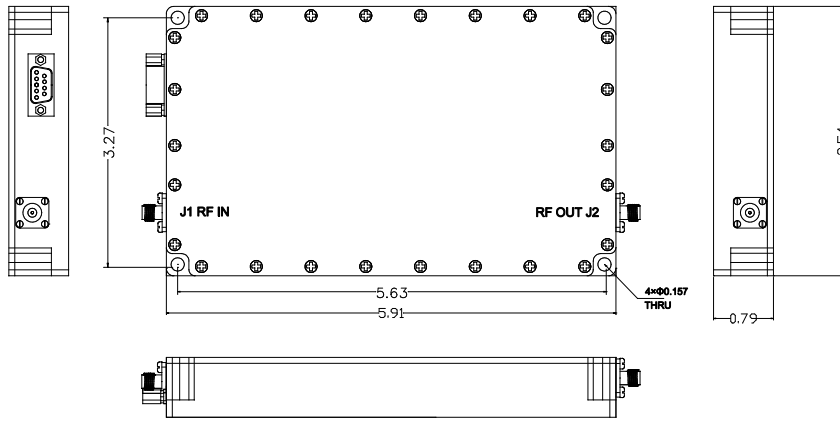
参数Parameter	指标 Value	单位 Units
输入输出接口Input /Output Connector	SMA-Female	
直流偏置 DC Power/Interface Connector	9-Pin D-SUB	
尺寸 Size	5.91*3.54*0.79	inches
重量 Weight	1000	g


**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	0 dBm ( < 10 sec without damage)
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

**外形尺寸 Outline Drawing:**

Unit: Inches



引脚 Pin	功能 Function	描述 Description
1		N/A
2		N/A
3	Current Sensor	$I_D @ 50mV/100mA$ Typ
4	Temp Sensor	$V_T @ 10mV/ C + 500mV$ Typ
5	Shutdown	
6	VDD	32VDC
7	GND	Ground

**温度环境 Environmental Conditions:**



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

参数 Parameter	Min.	Typ.	Max.	单位 Units
操作温度 Operating Temperature	-20		+65	°C
存储温度 Non-operating Temperature	-40		+85	°C
相对湿度 Relative humidity	5-95%			%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
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
TLPA0.8G18G-37-37	Power amplifier 0.8-18GHz,Gain:37dB,SMA-Female	Rev.1.1