

**Model:TLPA0.7G18G-37-37**
**Power Amplifier**
**0.7-18GHz,Gain:37dB,Psat:37dBm**
**Feature:**

- Ultra Wide Band: 0.7-18GHz
- Gain:37dB Min
- Psat Output Power:37dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**电气特性 Electrical Specifications:**

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	0.7-18			GHz
增益 Gain	37			dB
增益平坦度 Gain Flatness			±2.5	dB
饱和输出功率 Output Psat	37			dBm
杂散 Spurious			-60	dBc
谐波 Harmonics		-20		dBc
负载失配保护 Load VSWR Protection	3.0:1( < 1minute at rated pout)			
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage		+32		V DC
直流电流 DC Supply Current			5	A
阻抗 Impedance	50			Ohms

**机械特性 Mechanical Specifications:**

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 DC Bias	9-Pin D-SUB	
尺寸 Size	6.299*5.512*1.063	inches
重量 Weight	1400	g

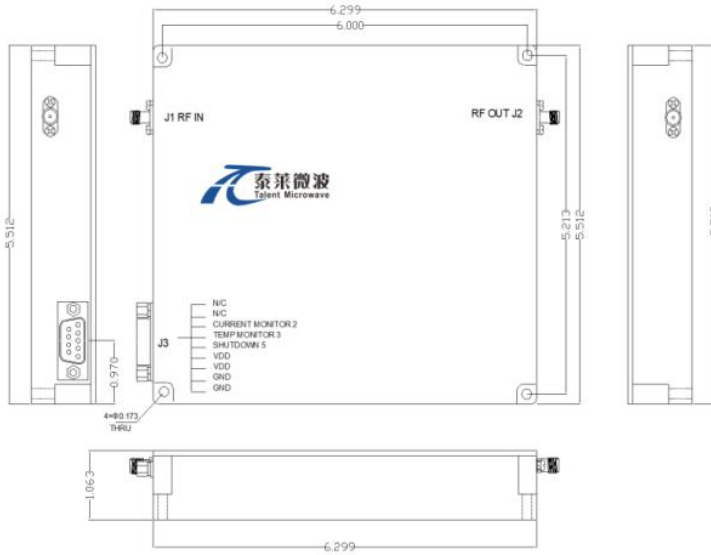
**绝对最大值 Absolute Maximum Ratings:**

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


**Available 220V System  
Benchtop Amplifier**

外形尺寸 Outline Drawing:

Unit: mm



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

\*\*\*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	-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)	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
TLPA0.7G18G-37-37	Power amplifier 0.7-18GHz, Gain:37dB, Psat:37dBm, +32V DC, Without Heatsink.	Rev.1.0
TLPA0.7G18G-37-37-HS	Power amplifier 0.7-18GHz, Gain:37dB, Psat:37dBm, +32V DC, With Heatsink.	Rev.1.0