

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
功率增益 Power 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@Pout=37dBm			-60	dBc
谐波 Harmonics@Pout=37dBm		-15	-10	dBc
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage		+28		V DC
直流电流 DC Supply Current			3	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	D-SUB7W2	
尺寸 Size	150*90*20	mm
重量 Weight	≤1	Kg

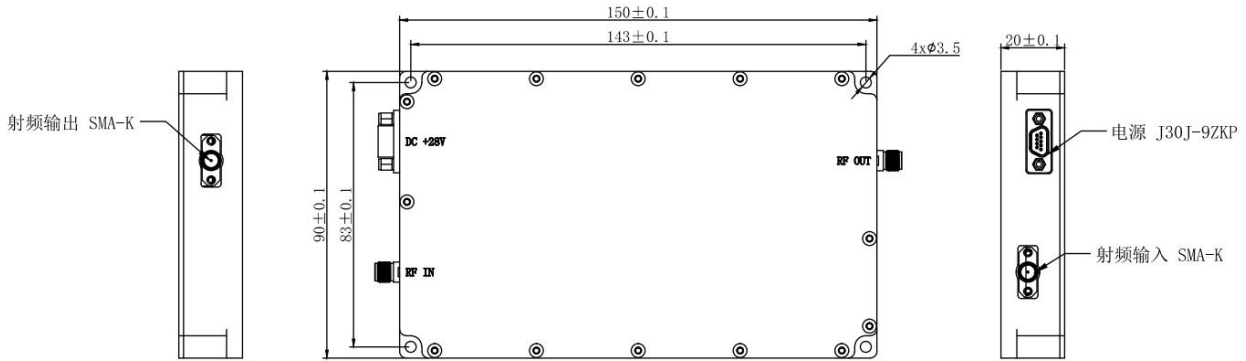
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System
 Benchtop Amplifier**

外形尺寸 Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

引脚 Pin	功能 Function
1~2	NC
3	CURRENT SENSOR
4	TEMP SENSOR
5	TTL-SWITCH
6~7	+28V
8~9	GND



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*	-50		+70	°C
相对湿度 Relative humidity		95		%
海拔 Altitude		10000		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			

*Note: For a wider temperature range, please consult the manufacturer.

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, +28V DC, Without Heatsink.	Rev.1.0
TLPA0.7G18G-37-37-HS	Power amplifier 0.7-18GHz, Gain:37dB, Psat:37dBm, +28V DC, With Heatsink.	Rev.1.0