

Model: TLPA1G6G-47-47
**Power amplifier, 1-6GHz, Gain: 47dB,
 Psat: 47 dBm**
Feature:

- Ultra Wide Band: 1-6GHz
- Gain: 47dB
- Psat Output Power: 47 dBm
- 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	1-6			GHz
增益 Gain	45	47		dB
增益平坦度 Gain Flatness		±4	±5	dB
P1dB	44.5	45.5		
饱和输出功率 Psat		47		dBm
输入驻波 Input VSWR		1.5	2.0	:1
谐波 harmonics	13	15		:1
输入功率 (input max Power no damage)			8	dBm
直流电压 DC Voltage		28		V DC
直流电流 DC Supply Current		5	6	mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

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

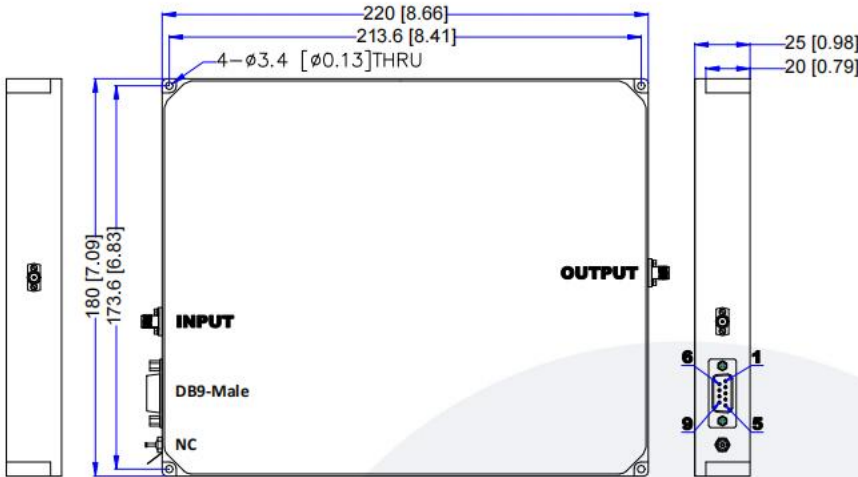

 Available 220V System
 Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF INPUT POWER	8 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm(inches)



DB9-Male	
1	+28V
2	+28V
3	+28V
4	GND
5	GND
6	GND
7	NC
8	NC
9	NC



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		95		%
海拔 Altitude	30,000			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
TLPA1G6G-47-47	Power amplifier 1-6GHz,Gain:47dB,Psat:47 dBm 28V DC, SMA Female	Rev.1.1