

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 | A |
| 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 |

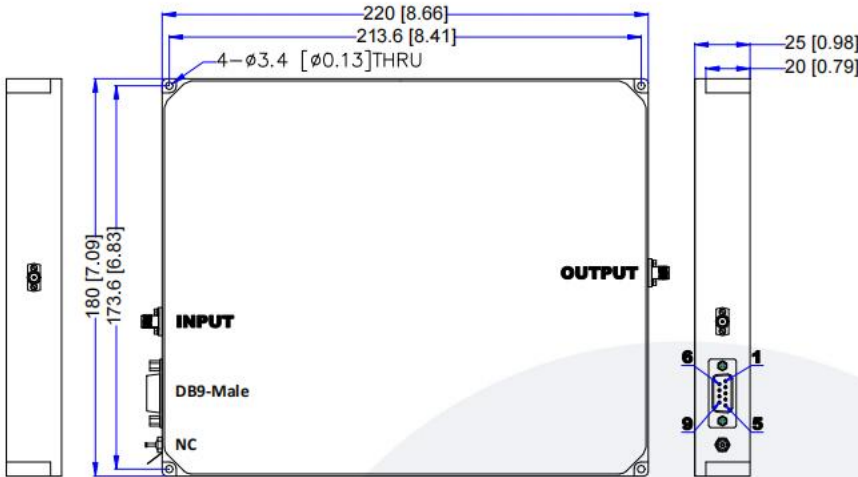

 Available 220V System
 Benchtop Amplifier

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 |