

**Model:TLPA2G8G-40-40**
**Power Amplifier**  
**2-8GHz,Gain:40dB,SMA-Female**
**Feature:**

- Ultra Wide Band: 2-8 GHz
- Gain: 40dB Min
- Psat Output Power: 40 dBm Min
- 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   | 2-8  |      |      | GHz     |
| 增益 Gain                | 40   |      |      | dB      |
| 增益平坦度 Gain Flatness    |      | ±1.5 |      | dBm     |
| 饱和输出功率 Psat            | 40   |      |      | dBm     |
| 输入功率Input power        |      |      | 8    | dB      |
| 杂散抑制@Pout=30dBm        | -50  |      |      | dBc     |
| 输入驻波 Input VSWR        |      | 2.0  |      | :1      |
| 直流电压 DC Voltage        | 28   |      |      | V DC    |
| 直流电流 DC Supply Current | 3500 |      |      | mA      |
| 阻抗 Impedance           | 50   |      |      | Ohms    |

**机械特性 Mechanical :**

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

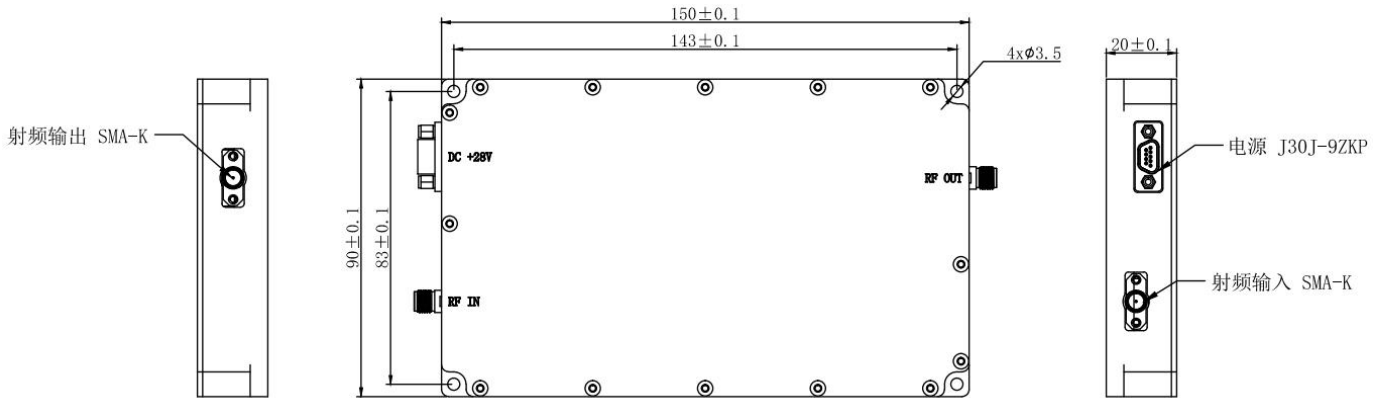
**绝对最大值 Absolute Maximum Ratings:**

| 参数Parameter                  | 指标 Value             |
|------------------------------|----------------------|
| 供电偏置电压 Supply Bias Voltage   | 28V                  |
| 输入功率 RF INPUT POWER          | 8 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(inches)



\*\*\*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         | -40  |      | +50  | °C      |
| 存储温度 Non-operating Temperature     | -55  |      | +125 | °C      |
| 相对湿度 Relative humidity             | 100%RH at 35°C, 95%RH at 40°C                      |      |      | %       |
| 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 |
|-------------------|---|-------------|
| TLPA2G8G-40-40    | Power amplifier<br>2-8GHz,Gain:40dB,SMA-Female,Without Heatsink | Rev.1.1     |
| TLPA2G8G-40-40-HS | Power amplifier<br>2-8GHz,Gain:40dB,SMA-Female,With Heatsink    | Rev.1.1     |