

**Model:TLPA18G40G-35-33**
**Power Amplifier**  
**18-40GHz,Gain:35dB,2.92mm-K**
**Feature:**

- Ultra Wide Band: 15-43GHz
- Gain: 35dB Min
- Psat Output Power: 33 dBm Type
- 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                   | 18-40 |      |      | GHz     |
| 增益 Gain                                | 35    |      |      | dB      |
| P-1输出功率P-1Output Power                 | 30    |      |      | dBm     |
| P-1输出功率平坦度<br>P-1Output power flatness |       |      | ±2   | dB      |
| 饱和输出功率 Psat                            |       | 33   |      | dBm     |
| 输入功率Input power                        |       | -5   | 0    | dB      |
| 杂散抑制@Pout=30dBm                        | 50    |      |      | dBc     |
| 输入驻波 Input VSWR                        |       |      | 2.0  | :1      |
| 直流电压 DC Voltage                        | 24    |      |      | V DC    |
| 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 | 2.92mm-K   |          |
| 直流偏置 Bias                     | Solder Pin |          |
| 重量 Weight                     | 500        | g        |

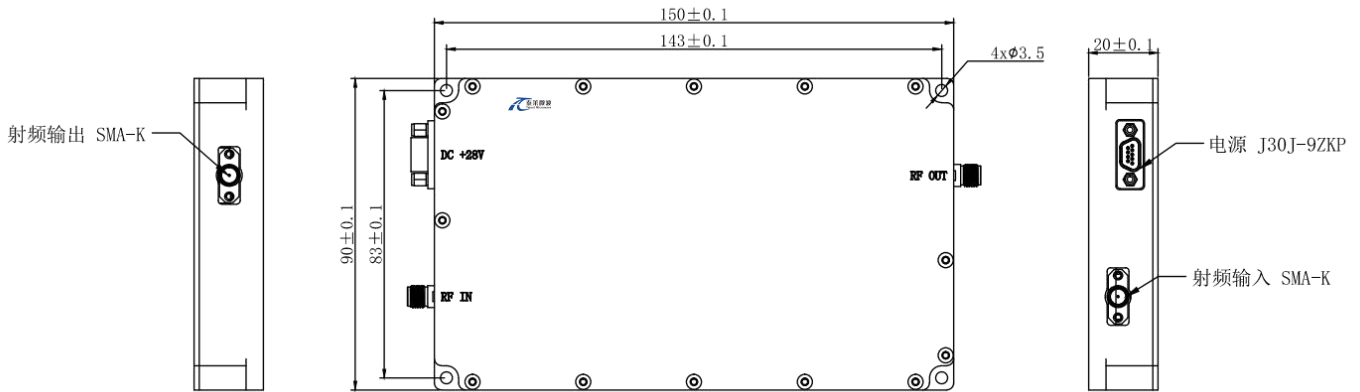
**绝对最大值 Absolute Maximum Ratings:**

| 参数Parameter                  | 指标 Value             |
|------------------------------|----------------------|
| 供电偏置电压 Supply Bias Voltage   | 1-5:+24V<br>6-9:GND  |
| 输入功率 RF INPUT POWER          | 0 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)



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         | -25  |      | +85  | °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 |
|------------------|---|-------------|
| TLPA18G40G-35-33 | Power amplifier 18-40GHz,Gain:35dB,2.92mm-K | Rev.1.1     |