

Model:TLPA0.1G20G-25-31
Power Amplifier
0.1-20GHz, Gain:25dB, Psat:31dBm
Feature:

- Ultra Wide Band: 0.1-20GHz
- Gain: 25dB
- Psat Output Power: 31dBm
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

电气特性 Electrical:

| 参数Parameter | Min. | Typ. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | 单位Units |
|------------------------|---------------|------|------|---------|------|------|--------|------|------|---------|
| 频率范围 Frequency range | 0.1-0.4 | | | 0.4-0.6 | | | 0.6-20 | | | MHz |
| 增益 Gain | 24 | 25 | | 24 | 25 | | 25 | 27 | | dB |
| 增益平坦度 Gain Flatness | | ±1 | | | ±1 | | | ±2 | | dB |
| 线性输出功率P1dB | 26 | 28 | | 29 | 30 | | 30 | 30.5 | | dBm |
| 饱和输出功率Psat | 29 | 30 | | 31 | 32 | | 31 | 32 | | dBm |
| 输入驻波 Input VSWR | | 2.2 | | | 2.0 | | | 2.0 | | :1 |
| 输出驻波 Ounput VSWR | | 2.2 | | | 2.0 | | | 2.0 | | :1 |
| 输入功率 Input Power | +10 | | | | | | | | | dBm |
| 直流电压 DC Voltage | +8(可扩展+8~+12) | | | | | | | | | V DC |
| 直流电流 DC Supply Current | 1300 | | | | | | | | | 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/SMA-Female | |
| 直流偏置 Bias | TBD | |
| 尺寸 Size | 44X52X13 | mm |
| 重量 Weight | / | g |

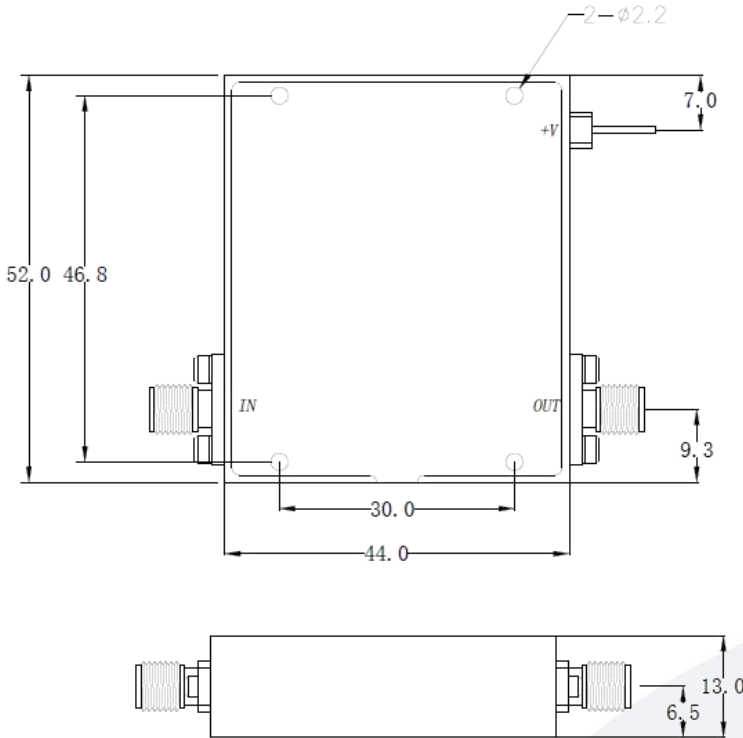

 Available 220V System
 Benchtop Amplifier

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 | 10 dBm |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

外形尺寸 Outline Drawing:

Unit: mm



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) | 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 | | | |

订货信息 Ordering Information:

| 标准型号 Part Number | 描述 Description | 版本号Revision |
|-------------------|---|-------------|
| TLPA0.1G20G-25-31 | Power amplifier ,0.1-20GHz,Gain:25dB,Psat:21dBm, +8V DC,Without Heatsink | Rev.1.1 |