

Model: TLPA1G6G-43-43
Power Amplifier
1000-6000MHz, Gain: 43dB, Psat: 43dBm
Feature:

- Ultra Wide Band: 1000-6000MHz
- Gain: 43dB Min
- P1dB Output Power: 40 dBm Typ
- 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 | 43 | | | dB |
| 增益平坦度 Gain Flatness | ≤ ±5 | | | dB |
| 线性输出功率 P1dB | 40 | | | dBm |
| 饱和输出功率 Psat | ≥ 43 | | | dBm |
| 杂散 @ 100KHz | ≤ -50 | | | dBc |
| 输入驻波 Input VSWR | | 1.5 | 2.0 | :1 |
| 直流电压 DC Voltage | | 28 | | V DC |
| 直流电流 DC Supply Current | 6000 | | | mA |
| 阻抗 Impedance | 50 | | | Ohms |

机械特性 Mechanical :

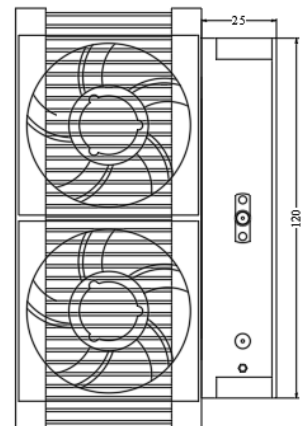
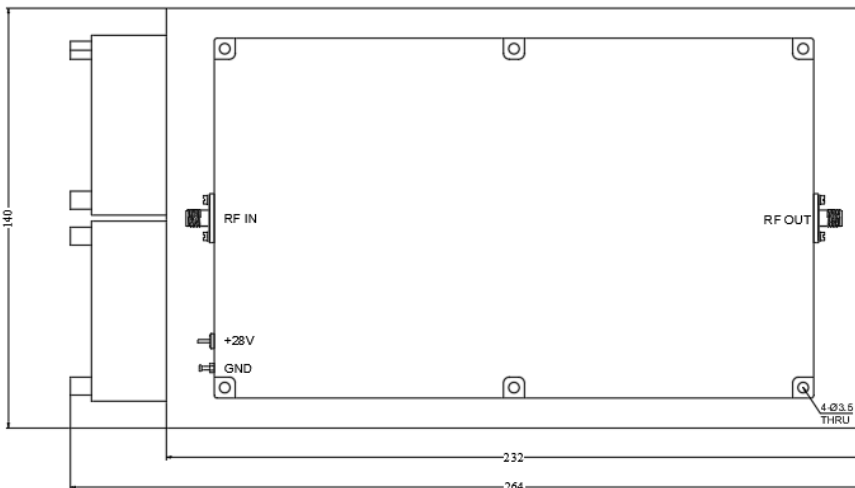
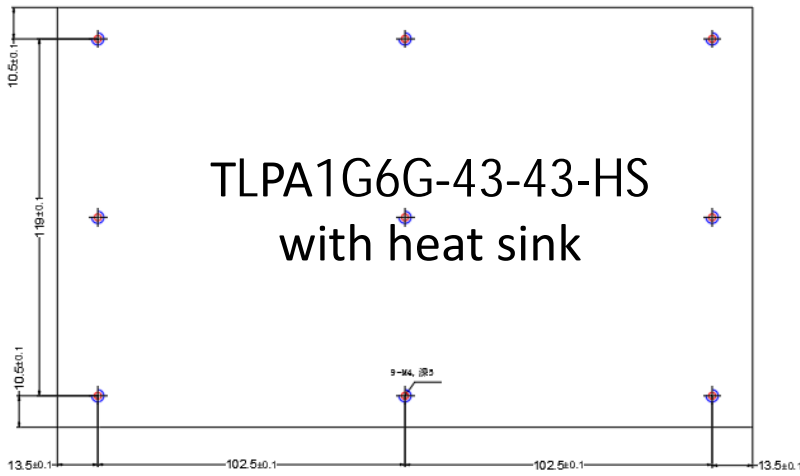
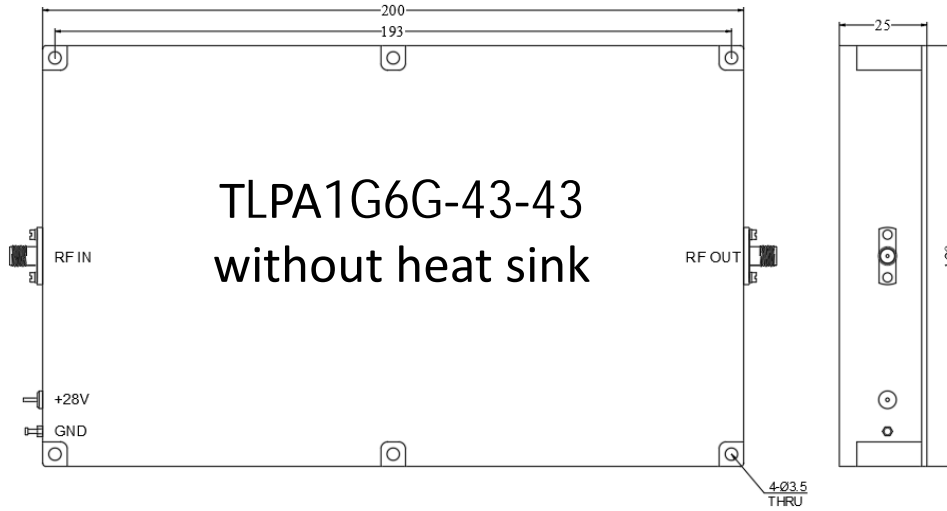
| 参数Parameter | 指标 Value | 单位Units |
|-----------------------------------|---------------|---------|
| 输入输出接口 Input /Output Connector | SMA Female | |
| 直流偏置 Bias | Solder Pin | |
| 尺寸 Size | 200X120X20 | mm |
| 重量 Weight | 200 | g |


绝对最大值 Absolute Maximum Ratings:

| 参数Parameter | 指标 Value |
|------------------------------|----------------------|
| 供电偏置电压 Supply Bias Voltage | 32 |
| 输入功率 RF INPUT POWER | 5 dBm |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

外形尺寸 Outline Drawing:

Unit: mm



风扇供电 Fans Supply Current: 0.4A@24V



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 |
|-------------------|--|-------------|
| TLPA1G6G-43-43 | Power amplifier 1-6 GHz, Gain:43dB, P1dB:40dBm, 28V DC, Without Heatsink | Rev.1.0 |
| TLPA1G6G-43-43-HS | Power amplifier 1-6 GHz, Gain:43dB, P1dB:40dBm, 28V DC, With Heatsink | Rev.1.0 |