

Model: TPA800M1300M-50-50
Power Amplifier
800MHz-1300MHz, Gain: 50dB, Psat: 50dBm
Feature:

- Ultra Wide Band: 0.8-1.3GHz
- Gain: 50dB Min
- Psat Output Power: 50 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 | 0.8-1.3 | | | GHz |
| 增益 Gain | 50 | 52 | | dB |
| 增益平坦度 Gain Flatness | | ±1 | ±2 | dB |
| 饱和输出功率 Psat | 50 | 51 | | dBm |
| 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 | | 2 | 15 | 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Input /Output Connector | SMA Female | |
| 直流偏置 Bias | Solder Pin | |
| 尺寸 Size | 180*100*20 | mm |
| 重量 Weight | 250 | g |

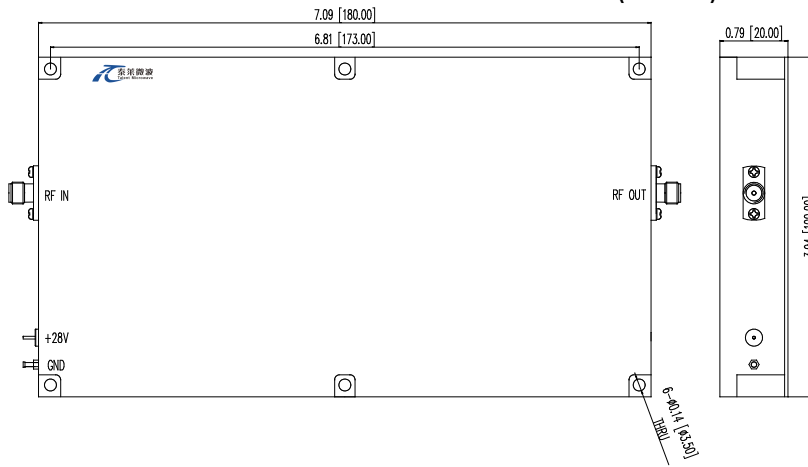

 Available 220V System
 Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

| 参数Parameter | 指标 Value |
|------------------------------|----------------------|
| 供电偏置电压 Supply Bias Voltage | 30 V |
| 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(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 | -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 |
|------------------------|---|-------------|
| TLPA800M1300M-50-50 | Power amplifier 800MHz-1300MHz, Gain:50dB, Psat:50dBm, 28V DC, Without Heatsink | Rev.1.1 |
| TLPA800M1300M-50-50-HS | Power amplifier 800MHz-1300MHz, Gain:50dB, Psat:50dBm, 28V DC, With Heatsink | Rev.1.1 |