# Model:TLPA0.3G5G-25-32

**Power Amplifier**
**0.3-5GHz,Gain:25dB,P1dB:30dBm**

**Feature：**

- Ultra Wide Band：0.3-5GHz
- Gain: 25dB Min
- Psat Output Power: 32 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 | | 0.3-5 | | GHz |
| 增益 Gain | 25 | | | dB |
| 增益平坦度 Gain Flatness | | ±2.0 | | dB |
| 线性输出功率Output P1dB | | 30 | | dBm |
| 饱和输出功率Output Psat | 32 | | | dBm |
| 输入驻波 Input VSWR | | 1.8 | | :1 |
| 输入驻波 Output VSWR | | 1.8 | | :1 |
| 直流电压 DC Voltage | 9 | 12 | 15 | V DC |
| 直流电流 DC Current | | 0.7 | 0.9 | A |
| 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 | 30*50*12 | mm |
| 重量 Weight | / | g |

**Available 220V System Benchtop Amplifier**
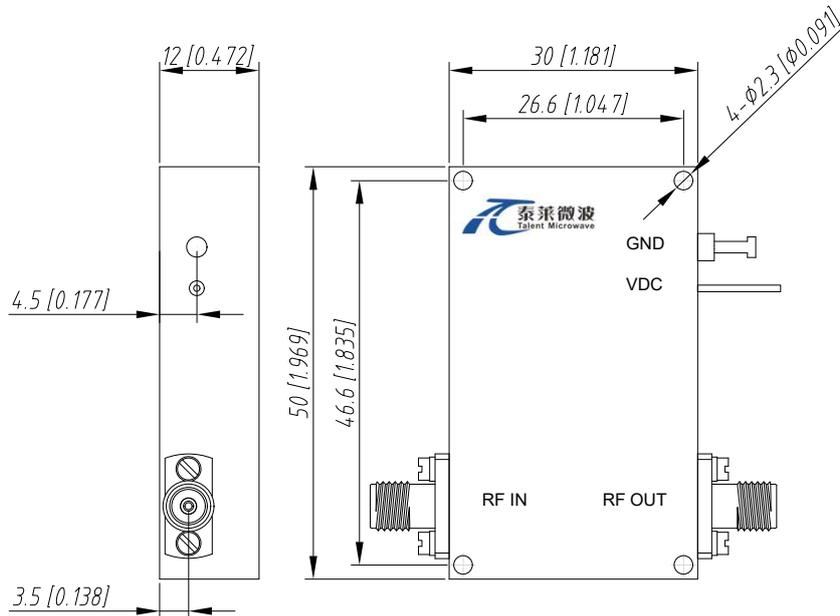
## 绝对最大值 Absolute Maximum Ratings:

| 参数Parameter | 指标 Value |
|---|---|
| 供电偏置电压 Supply Bias Voltage | +15V |
| 输入功率 RF INPUT POWER | 14 dBm |

**Turpanic**

## 外形尺寸Outline Drawing:

Unit: mm(inches)



12 [0.472]

30 [1.181]

26.6 [1.047]

4-φ2.3 [φ0.091]

GND

VDC

Talent Microwave
泰莱微波

4.5 [0.177]

50 [1.969]

46.6 [1.835]

RF IN    RF OUT

3.5 [0.138]

### ***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 | -45 | | +85 | ℃ |
| 存储温度 Non-operating Temperature | -55 | | +125 | ℃ |
| 相对湿度 Relative humidity | 100%RH at 35℃，95%RH at 40℃ | | | |
| 海拔 Altitude | 50,000 | | | 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 |
|---|---|---|
| TLPA0.3G5G-25-32 | Power amplifier 0.3-5GHz,Gain:25dB,P1dB:30dBm,9~15V DC, | Rev.1.0 |

## 典型曲线 Typical Performance Data:

### Gain&VSWR VS. Frequency