泰莱微波
Talent Microwave

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# Model:TLPA0.5G8G-35-33

## Power Amplifier
## 0.5-8GHz,Gain:35dB,Psat:33dBm

**Feature:**

- Ultra Wide Band: 0.5-8GHz
- Gain:33dB Min
- Psat Output Power:33dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

## 电气特性 Electrical Specifications:

| 参数Parameter | Min | Typ | Max | 单位Units |
|---|---|---|---|---|
| 频率范围 Frequency range | | 0.5-8 | | GHz |
| 增益 Gain | 33 | 35 | | dB |
| 增益平坦度 Gain Flatness | | ±3 | | dB |
| 饱和输出功率 Output Psat | 32 | 33 | | dBm |
| 谐波 Harmonics | | | -10 | dBc |
| 杂散 Spurious | | | -60 | dBc |
| 输入驻波 Input VSWR | | 1.5 | 2 | :1 |
| 直流电压 DC Voltage | +26 | +28 | +30 | V DC |
| 直流电流 DC Supply Current | | 500 | 1200 | mA |
| 阻抗 Impedance | | 50 | | Ohms |

## 机械特性 Mechanical Specifications:

| 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 DC Bias | Solder Pin | |
| 尺寸 Size | 90.2*70*15 | mm |
| 重量 Weight | / | g |

## 绝对最大值 Absolute Maximum Ratings:

| 参数Parameter | 指标 Value |
|---|---|
| 供电偏置电压 Supply Bias Voltage | 30V |
| 输入功率 RF Input Power | 5dBm |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

Available 220V System
Benchtop Amplifier

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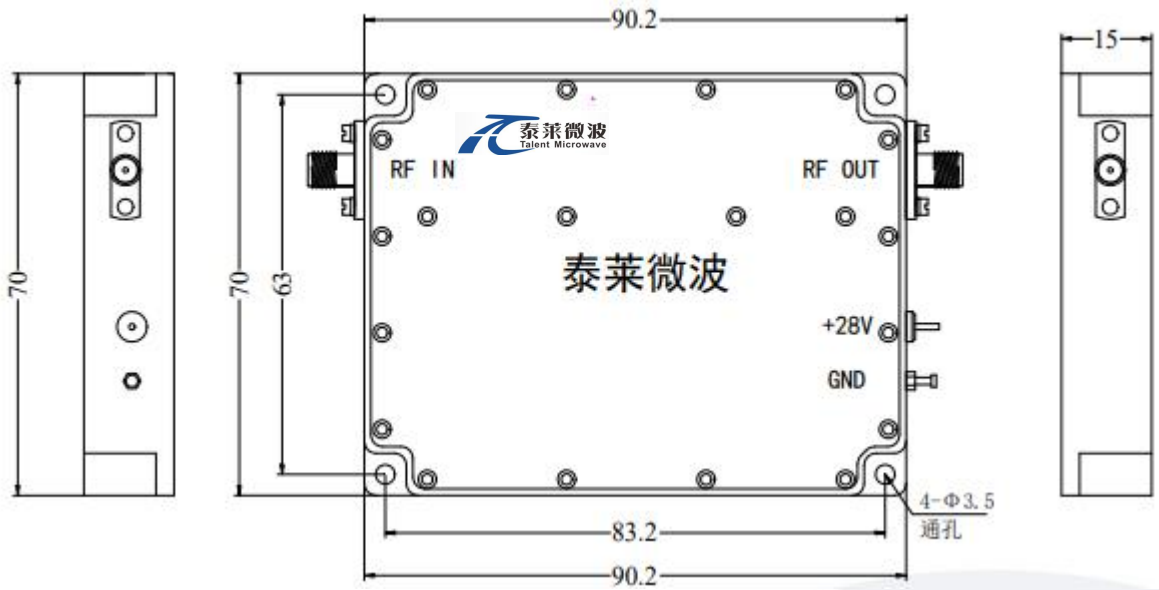
## 外形尺寸Outline Drawing:

Unit: mm




***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 | | 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 |
|---|---|---|
| TLPA0.5G8G-35-33 | Power amplifier 0.5-8GHz,Gain:35dB,Psat:33dBm,+28V DC,Without Heatsink. | Rev.1.1 |
| TLPA0.5G8G-35-33-HS | Power amplifier 0.5-8GHz,Gain:35dB,Psat:33dBm,+28V DC,With Heatsink. | Rev.1.1 |

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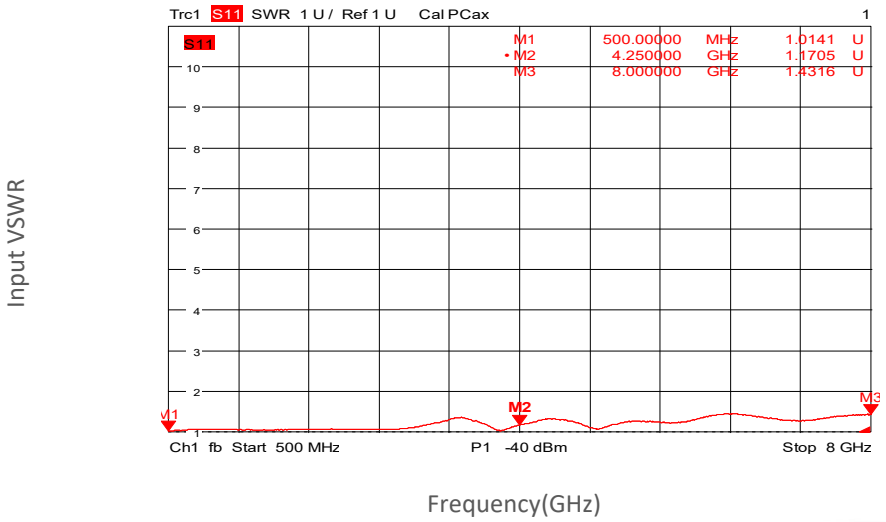
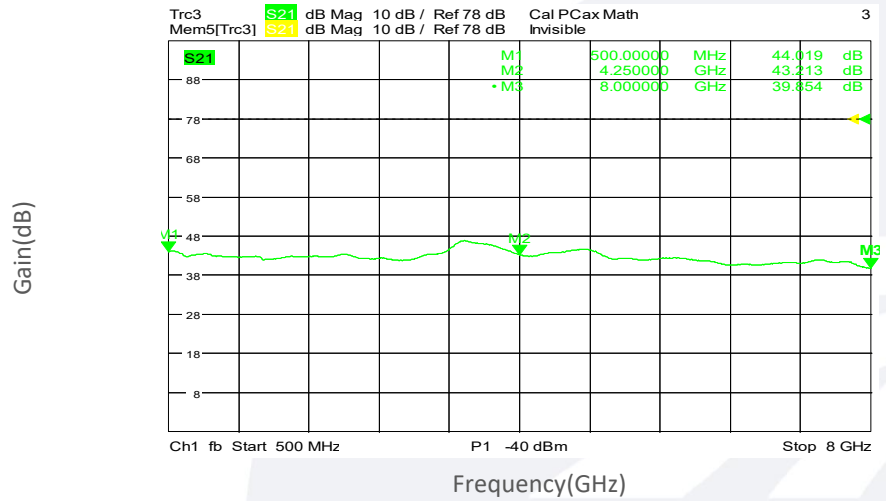
## 典型曲线 Typical Performance Data:

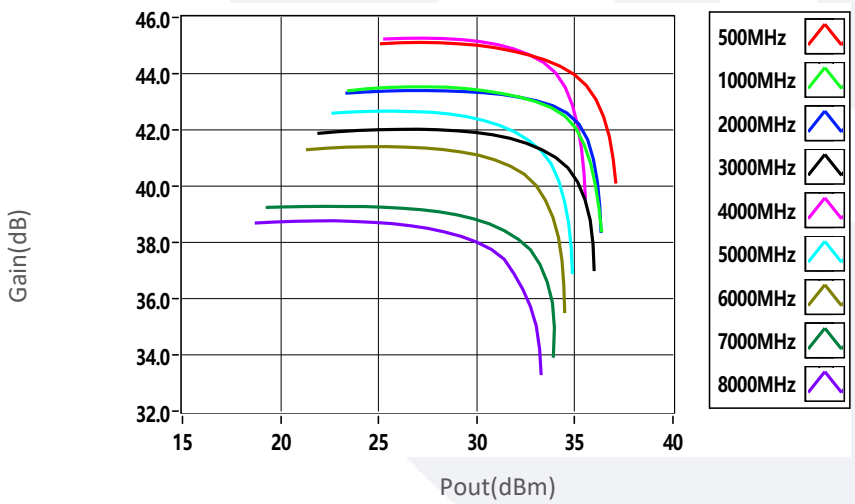
### Input VSWR vs Frequency




### Gain vs Frequency




### Gain vs Output Power



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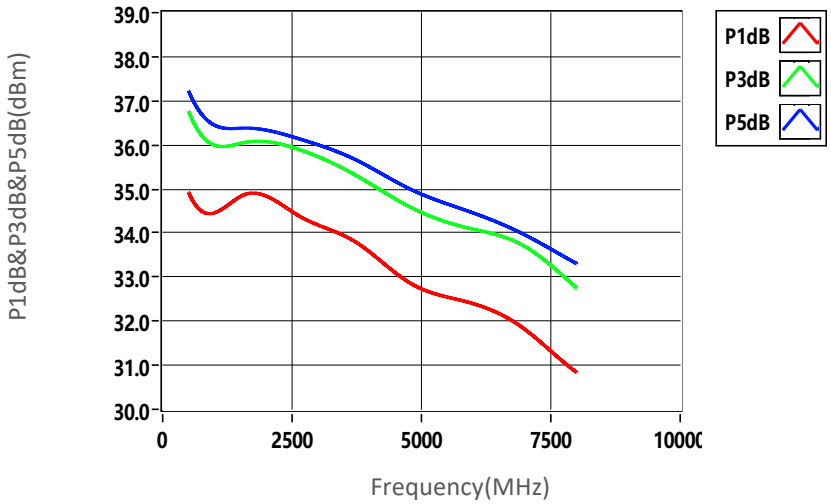
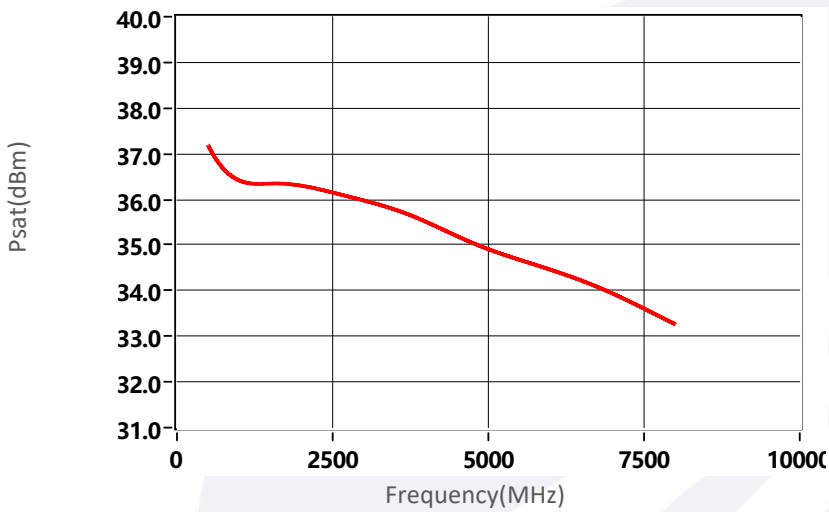
## 典型曲线 Typical Performance Data:

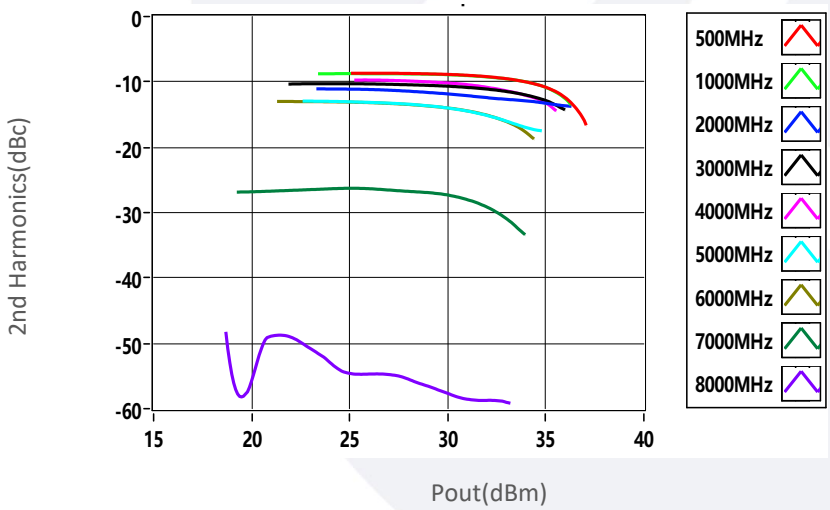
### P1dB&P3dB&P5dB vs Frequency




### Psat vs Frequency




### 2nd Harmonics vs Output Power



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## 典型曲线 Typical Performance Data: