

0.1-400MHz,Gain:52dB,Psat:52dBm

Feature:

- Ultra Wide Band: 0.1-400MHz
- Gain: 52 dB Typ
- Psat Output Power: 52 dBm 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 | 0.1-400 | | | MHz |
| 小信号增益 Small Signal Gain | 49 | 52 | | dB |
| 增益平坦度 Gain Flatness | | ±3 | ±5 | dB |
| 线性输出功率 Output P1dB | 49 | 50 | | dBm |
| 饱和输出功率 Output Psat | 50 | 52 | | dBm |
| 谐波 Harmonic@Pout=50dBm | | -12 | | dBC |
| 输入驻波 Input VSWR | | 1.5 | 2.0 | :1 |
| 直流电压 DC Voltage | +26 | +28 | +30 | V DC |
| 直流电流 DC Supply Current | | 10 | 20 | A |
| 阻抗 Impedance | 50 | | | Ohms |

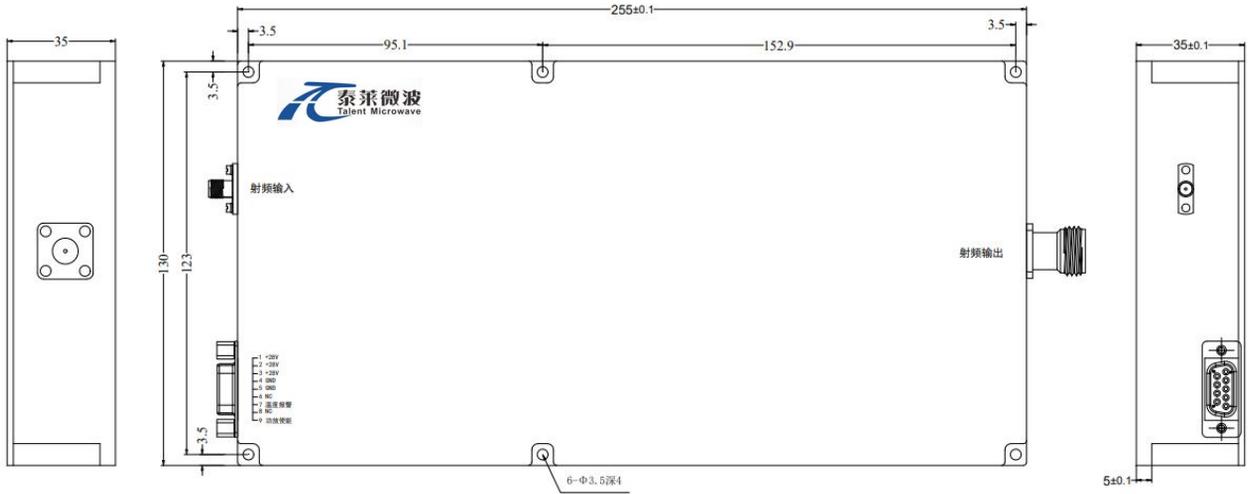
机械特性 Mechanical Specifications:

| 参数Parameter | 指标 Value | 单位Units |
|--------------------------------|---------------------|---------|
| 输入输出接口 Input /Output Connector | SMA Female/N Female | |
| 直流偏置 DC Bias | DB9 | |
| 尺寸 Size | 255*130*35 | mm |
| 重量 Weight | 2500 | g |

绝对最大值 Absolute Maximum Ratings:

| 参数Parameter | 指标 Value |
|-------------|----------|
|-------------|----------|

Unit: mm



***Heat Sink Required During Operation



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) | 20g,11ms,saw-tooth | | | |
| 冲击 Shock(non operating) | 20G for 11msc half sin wave,3 axis both directions | | | |

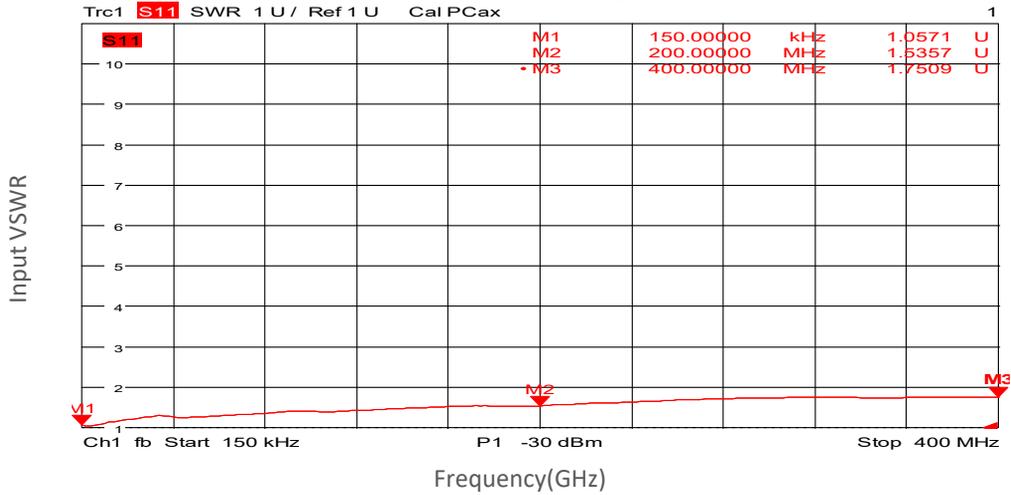
订货信息 Ordering Information:

| 标准型号 Part Number | 描述 Description | 版本号Revision |
|------------------|----------------|-------------|
|------------------|----------------|-------------|

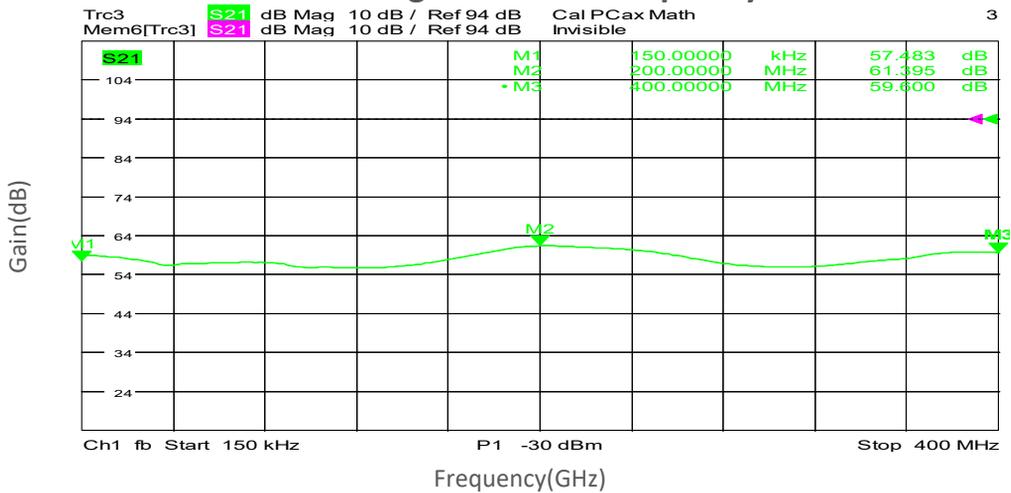
DC Interface Connector D-sub, 9-Pin, Female

| Pin # | Name | Function |
|-------|------------------|--|
| 1 | +28V | +26.0-30.0VDC |
| 2 | +28V | +26.0-30.0VDC |
| 3 | +28V | +26.0-30.0VDC |
| 4 | GND | Ground |
| 5 | GND | Ground |
| 6 | NC | Not connected |
| 7 | Over Temperature | When the temperature of the case exceeds 85 °C, the power amplifier will turn off and this pin will be pulled high. If the temperature of case drops to 70 °C, the power amplifier will return to normal operation, and this pin will be pulled low. |
| 8 | NC | Not connected |
| 9 | EN | Amplifier Enable: TTL High (5V) (Internally Pulled-High) Amplifier Disable: Short to ground |

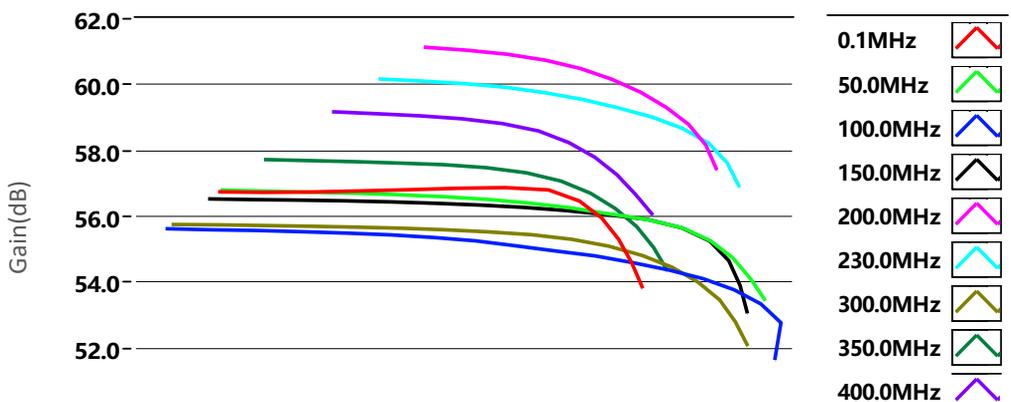
Input VSWR vs Frequency



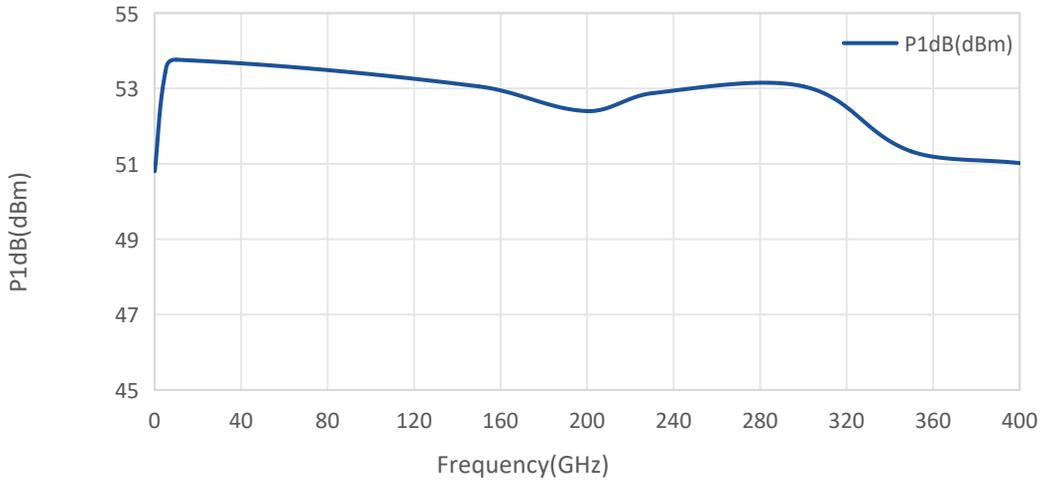
Small Signal Gain vs Frequency



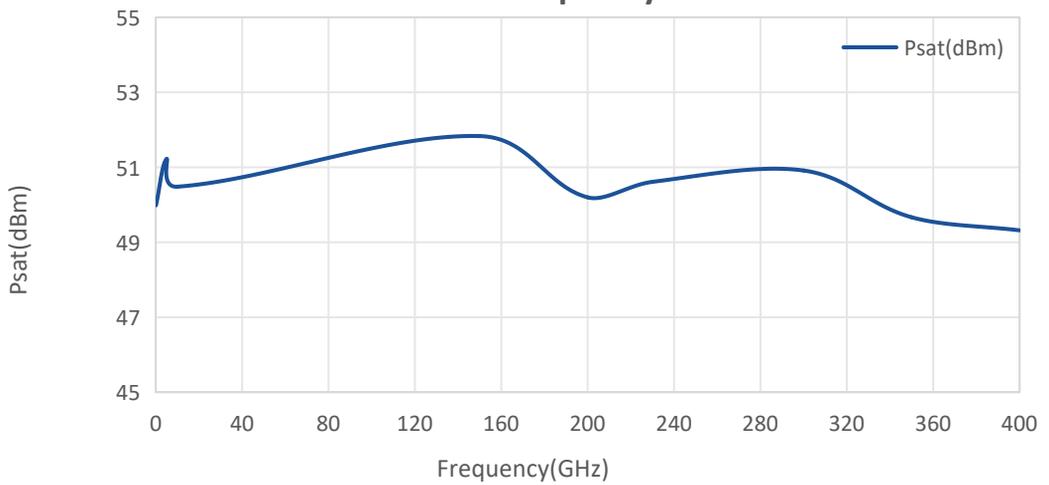
Gain vs Output Power



P1dB vs Frequency



Psat vs Frequency



Harmonics vs Frequency

