

## 0.05-12GHz, Gain:33dB, P1dB:30dBm

### Feature:

- Ultra Wide Band: 0.05-12GHz
- Gain: 30dB Min
- Psat Output Power: 31dBm 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   | 0.05-12 |     |      | GHz     |
| 增益 Gain                | 30      | 33  |      | dB      |
| 增益平坦度 Gain Flatness    |         | ±3  |      | dB      |
| 线性输出功率 Output P1dB     | 30      |     |      | dBm     |
| 饱和输出功率 Output Psat     |         | 31  |      | dBm     |
| 二次谐波 Second Harmonic   |         | -20 |      | dBc     |
| 杂散 Spurious            |         | -60 |      | dBc     |
| 输入驻波 Input VSWR        |         | 2   |      | :1      |
| 输出驻波 Output VSWR       |         | 2   |      | :1      |
| 噪声系数 Noise Figure      |         | 8   |      | dB      |
| 直流电压 DC Voltage        |         | +24 |      | V DC    |
| 直流电流 DC Supply Current |         | 790 | 1000 | mA      |
| 阻抗 Impedance           | 50      |     |      | Ohms    |

### 机械特性 Mechanical Specifications:

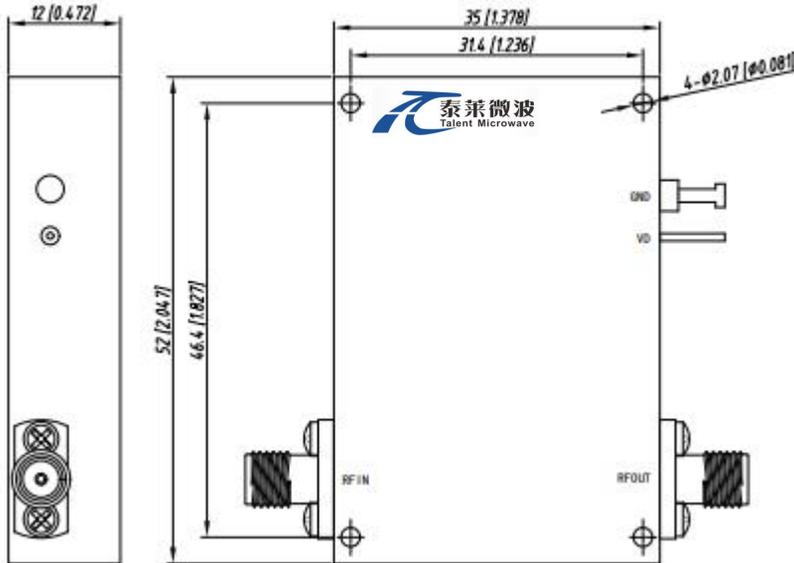
| 参数Parameter                    | 指标 Value              | 单位Units |
|--------------------------------|-----------------------|---------|
| 输入输出接口 Input /Output Connector | SMA Female/SMA Female |         |
| 直流偏置 DC Bias                   | Solder Pin            |         |
| 尺寸 Size                        | 35*52*12              | mm      |
| 重量 Weight                      | 50                    | g       |

### 绝对最大值 Absolute Maximum Ratings:

参数Parameter

指标 Value

Unit: mm



### \*\*\*Heat Sink Required During Operation



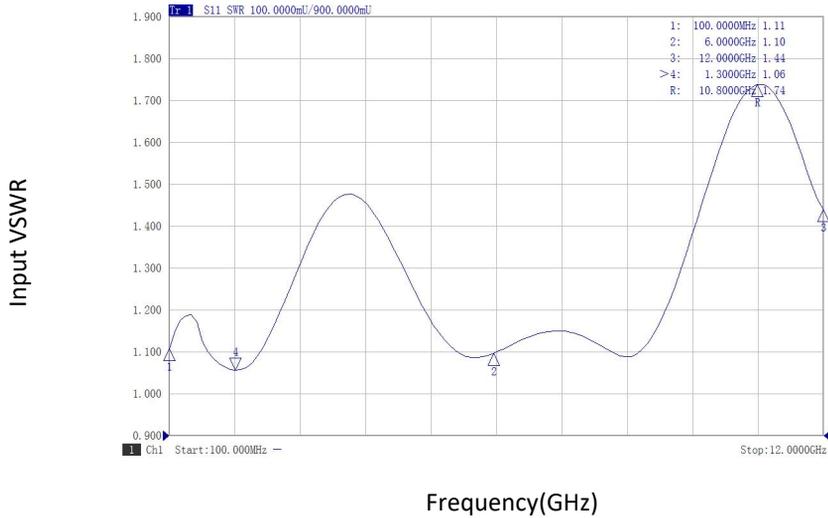
#### 温度环境 Environmental Conditions:

| 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             | 100%RH at 35°C, 95%RH at 40°C                       |     |      | %       |
| 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  |     |      |         |

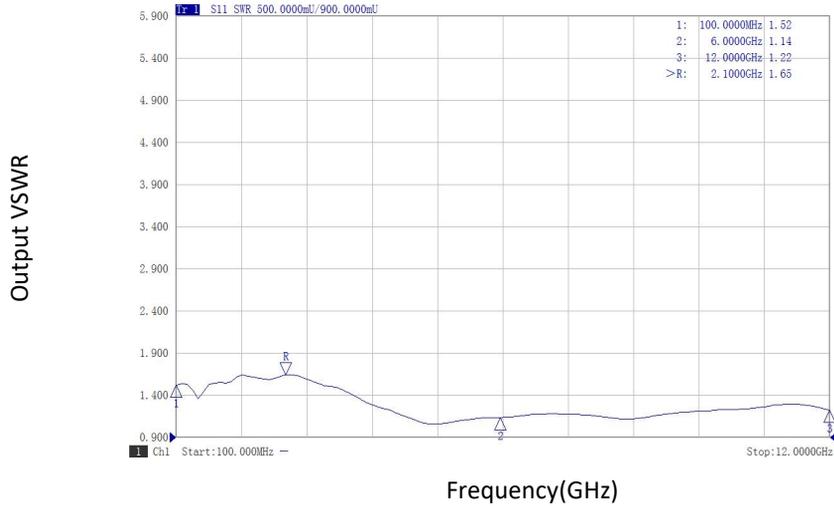
#### 订货信息 Ordering Information:

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

### Input VSWR vs Frequency



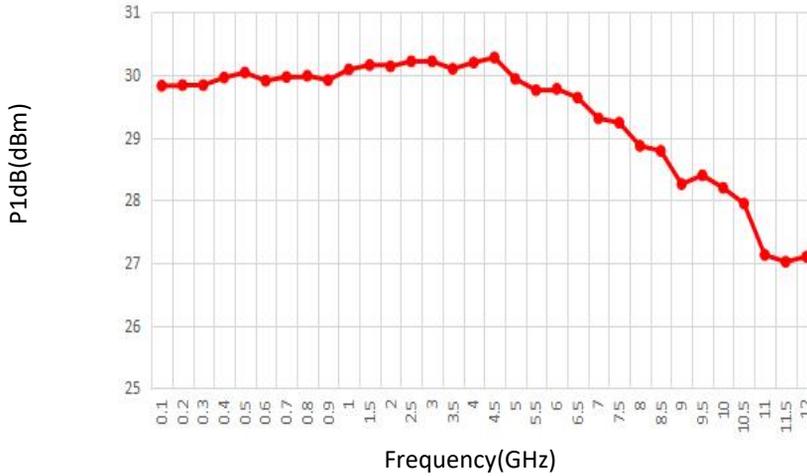
### Output VSWR vs Frequency



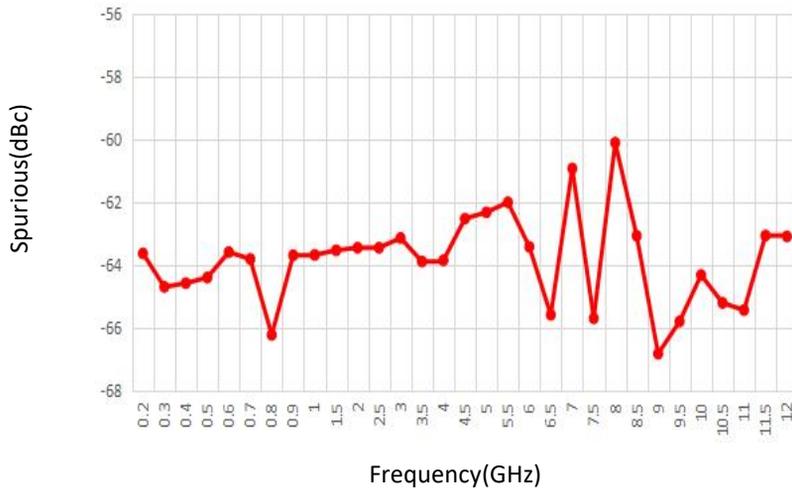
### Gain vs Frequency

Gain(dB)

## P1dB vs Frequency



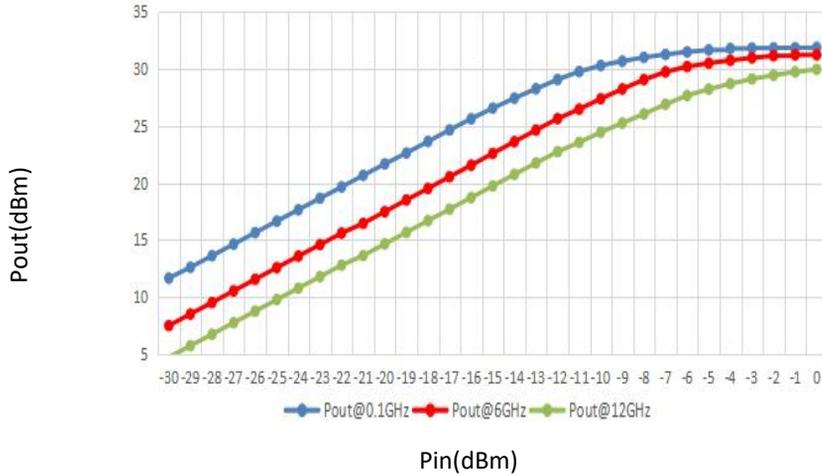
## Spurious VS Frequency



## Harmonics VS Frequency

Harmonics(dBc)

**Pout@Pin**



**Pout@Equal\_Pin**

