

北京天华中威科技有限公司

TSPA-000025G21 超宽带中功率放大器

技术说明书



| | |
|----|--|
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| 传真 | 86-010-84164373 |
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50 Ω 21dBm 100KHz to 2.5 GHz

特性

- 超宽带, 可用范围 100KHz – 2.5GHz
- 高增益 30dB typ
- 高输出功率 21dBm typ

应用

- 室外电池供电系统的测试设备
- 小信号放大器或前置放大
- 实验室测试用
- P 波段 S 波段的宽带接收



技术指标

| 指标参数 | 条件 | 最小值 | 典型值. | 最大值 | 单位 |
|-------|-------------|------|-----------|-----------|-----|
| 频率范围 | | 0.1 | - | 2500 | MHz |
| 增益 | 在所有的工作温度范围内 | 27 | 30 | - | dB |
| 增益平坦度 | | - | ± 2.0 | ± 3.0 | dB |
| P1dB | 在整个频率范围内 | - | 21.0 | - | dBm |
| OIP3 | | - | 32 | - | dBm |
| 噪声系数 | @1.0GHz | - | 3.5 | 4.5 | dB |
| 输入驻波 | | - | 2.0 | 2.5 | :1 |
| 输出驻波 | | - | 2.5 | 3.0 | :1 |
| 电压 | | 11.0 | 12.0 | 15.0 | V |
| 电流 | | - | 350 | - | mA |

测试条件, 室温 25°C, 阻抗 50 Ω , +12V DC.



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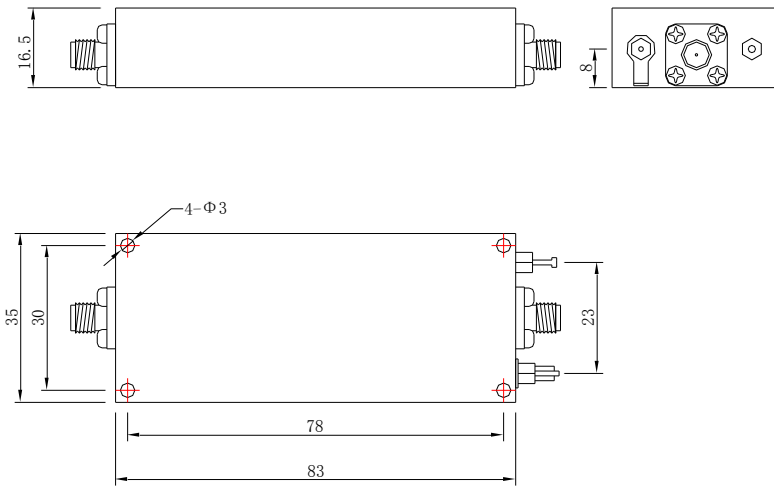
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外形尺寸

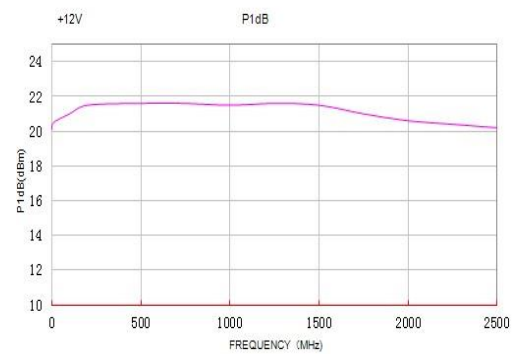
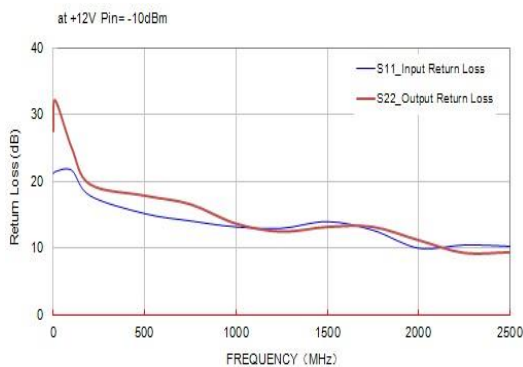
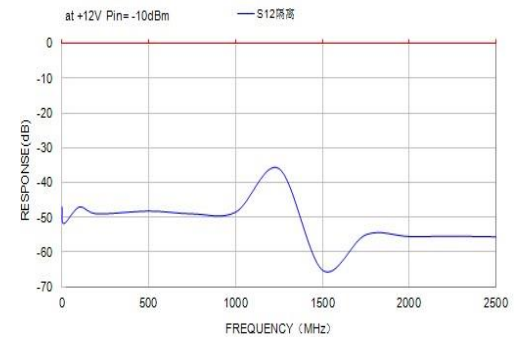
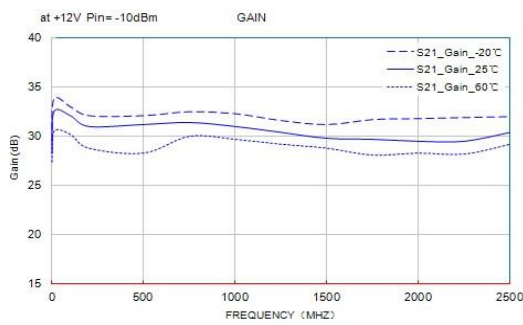
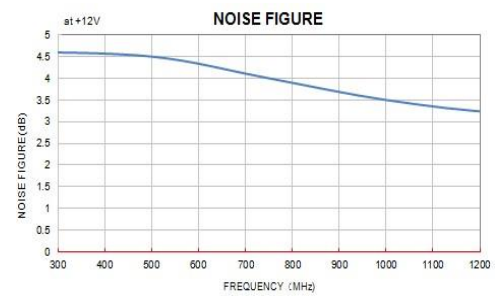


极限参数

| 参数 | 范围 |
|--------|----------------|
| 操作温度 | -20°C to 70°C |
| 储藏温度 | -55°C to 100°C |
| 极限电压 | 15V |
| 最大入口功率 | -5dBm |

超出该极限值有可能对器件造成损坏!

典型性能曲线



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典型性能参数测试数据 (12V,25°C)

| Frequency (MHz) | Gain (dB) | Return Loss (dB) | | Pout at 1dB Compr (dBm) | NF (dB) |
|--------------------|--------------|---------------------|--------|-------------------------------|------------|
| | | Input | Output | | |
| 0.1 | 28.3 | -21.2 | 27.6 | 20.1 | 6.0 |
| 10 | 32.5 | -21.5 | 32.2 | 20.5 | 5.0 |
| 100 | 32.1 | 21.7 | 25.1 | 21.0 | 4.5 |
| 200 | 31.0 | 17.9 | 19.6 | 21.5 | 4.6 |
| 500 | 31.2 | 15.2 | 17.9 | 21.6 | 4.5 |
| 750 | 31.4 | 14.1 | 16.6 | 21.6 | 4.0 |
| 1000 | 31.0 | 13.2 | 13.7 | 21.5 | 3.5 |
| 1250 | 30.4 | 13.0 | 12.5 | 21.6 | 3.2 |
| 1500 | 29.8 | 14.0 | 13.2 | 21.5 | 3.2 |
| 1750 | 29.7 | 12.7 | 13.2 | 21.0 | 3.3 |
| 2000 | 29.5 | 10.0 | 11.2 | 20.6 | 3.5 |
| 2250 | 29.5 | 10.5 | 9.3 | 20.4 | 3.6 |
| 2500 | 30.4 | 10.3 | 9.4 | 20.2 | 3.8 |



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