

Model:TLPA2G6G-50-50
**Solid State High Power Amplifier
 2-6GHz,Gain:50dB,Psat:50dBm**
Feature:

- Ultra Wide Band: 2-6 GHz
- Gain: 50 dB Min
- Psat Output Power: 50 dBm Min
- 50 Ohm Matched Input / Output

电气特性 Electrical:

| 参数Parameter | 代码Symbol | Min. | Typ. | Max. | 单位Units |
|-------------------------|------------|----------|---------|------|---------|
| 频率范围 Frequency range | BW | 2-6 | | | GHz |
| 功率增益 Power Gain | Gp | 50 | | | dB |
| 工作模式 Operation Mode | MOD | CW/PULSE | | | |
| 增益平坦度 Gain flatness | ΔG | | ± 3 | | dB |
| 饱和输出功率 Output Psat | Psat | 50 | | | dBm |
| 输入功率 Input Power | Pin | | 0 | 10 | dBm |
| 杂散 Spurious@Pout=50dBm | Spur | 60 | | | dBc |
| 谐波 Harmonics@Pout=50dBm | 2nd | | 10 | | dBc |
| 输入驻波 Input VSWR | VSWRin | | | 2.0 | :1 |
| 交流电压 DC Voltage | Vdc | | +28 | | V DC |
| 功耗 Power Consumption | Pdiss | | | 800 | W |
| 阻抗 Impedance | I/O-IMP | 50 | | | Ohms |

机械特性 Mechanical :

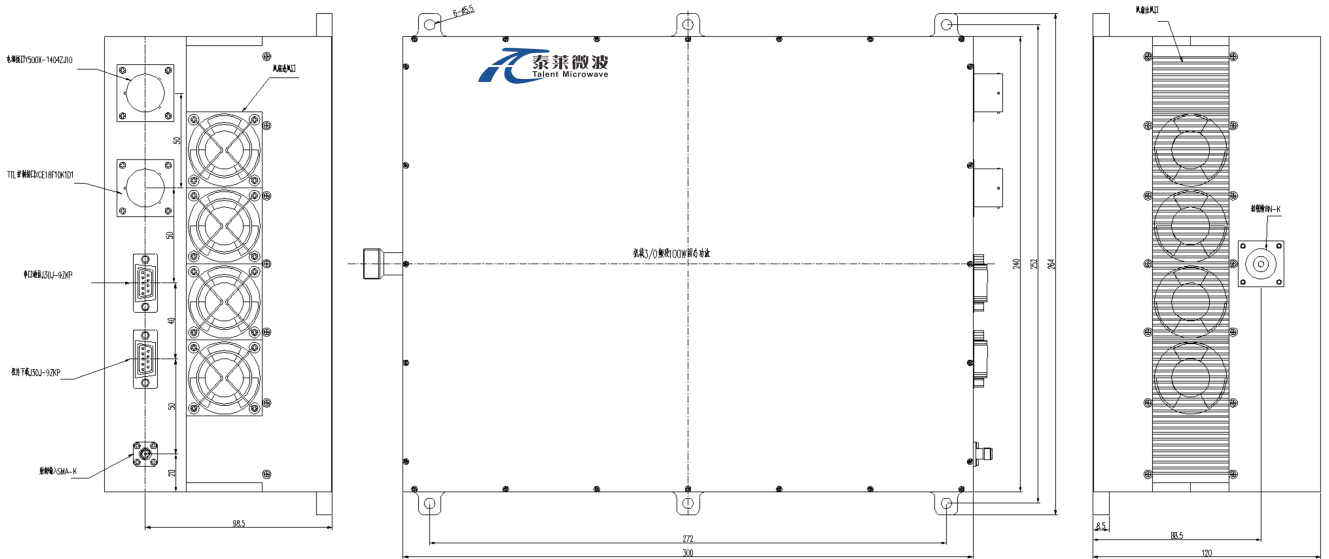
| 参数Parameter | 指标 Value | 单位Units |
|--------------------------------|---------------------|---------|
| 输入输出接口 Input /Output Connector | SMA-Female/N-Female | |
| DC加电接口 DC Power Interface | Y50DX-1404 | |
| 通信接口 Communication Interfaces | J30J-9ZKP | |
| 尺寸 Size | 300*264*120 | mm |
| 重量 Weight | 4 | Kg |

绝对最大值 Absolute Maximum Ratings:

| 参数Parameter | 指标 Value |
|---------------------------|---|
| 内置保护 Built-in protections | ProOver TEM, over voltage, over current, input over power, output mismatch protection. 具备过温保护、输入过功率保护、过压保护、过流保护、输出失配保护; |
| 风冷系统 Cooling system | Built-in internal forced air cooling system 内置强制风冷 |
| 内置监测 Built-in Monitor | Output Power, Temperature, Voltage, Current, 输出功率、温度、供电电压、供电电流 |
| 内置 Built-in control | 关闭 Shutdown |

外形尺寸 Outline Drawing:

Unit: mm



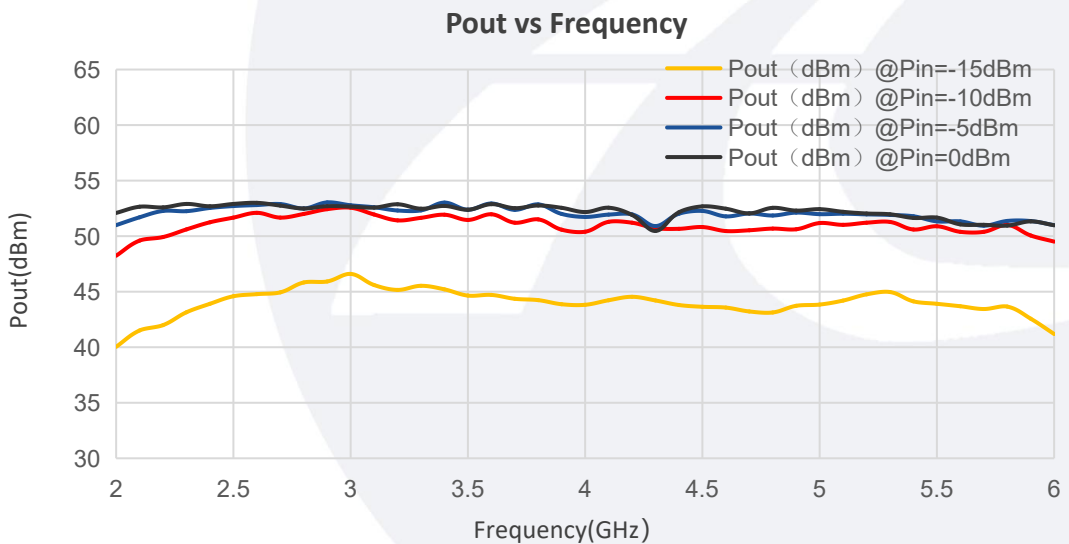
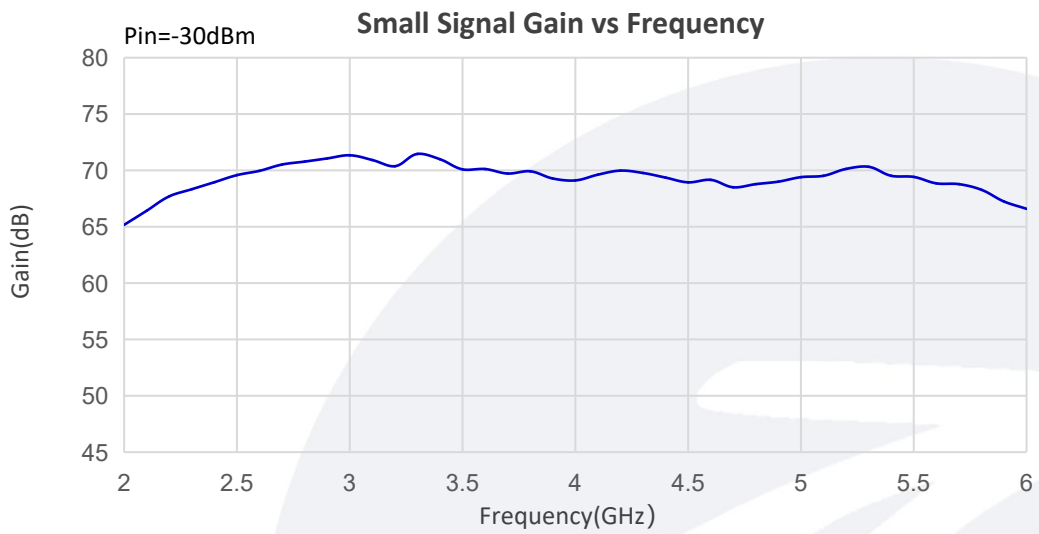
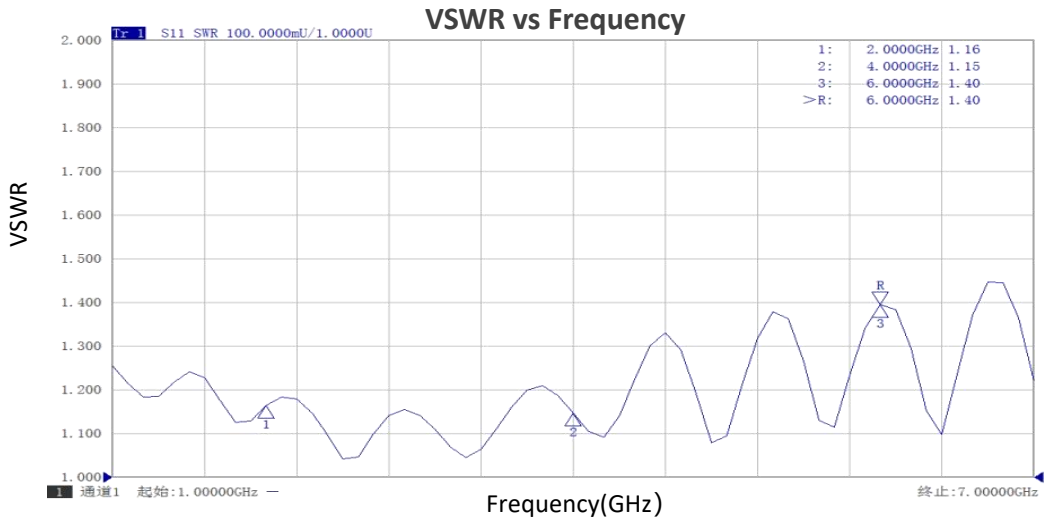
温度环境 Environmental Conditions:

| 参数Parameter | Min. | Typ. | Max. | 单位Units |
|------------------------------------|---|------|------|---------|
| 操作温度 Operating Temperature | -40 | | +60 | °C |
| 存储温度 Non-operating Temperature | -45 | | +65 | °C |
| 相对湿度 Relative humidity | | 95 | | % |
| 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 | | | |

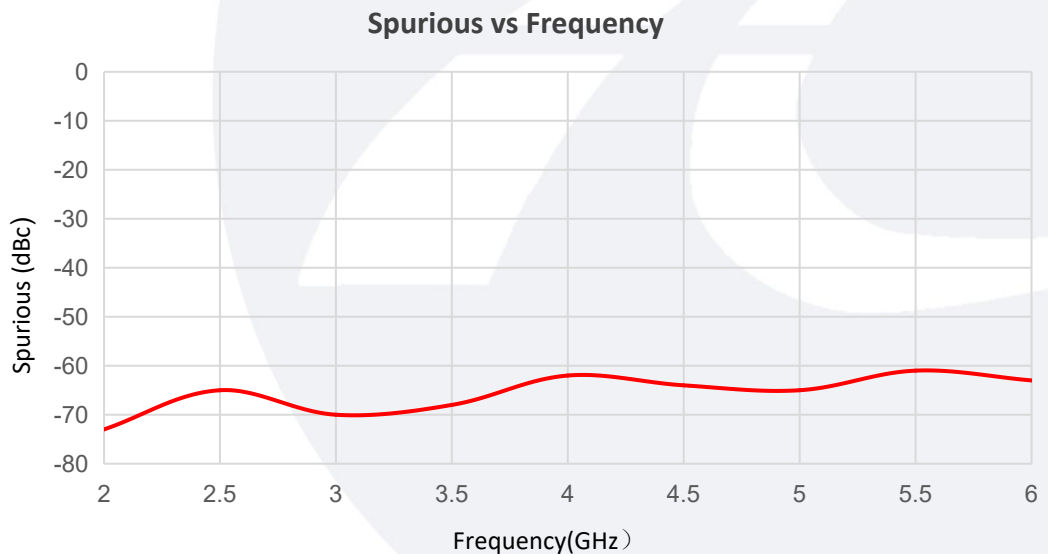
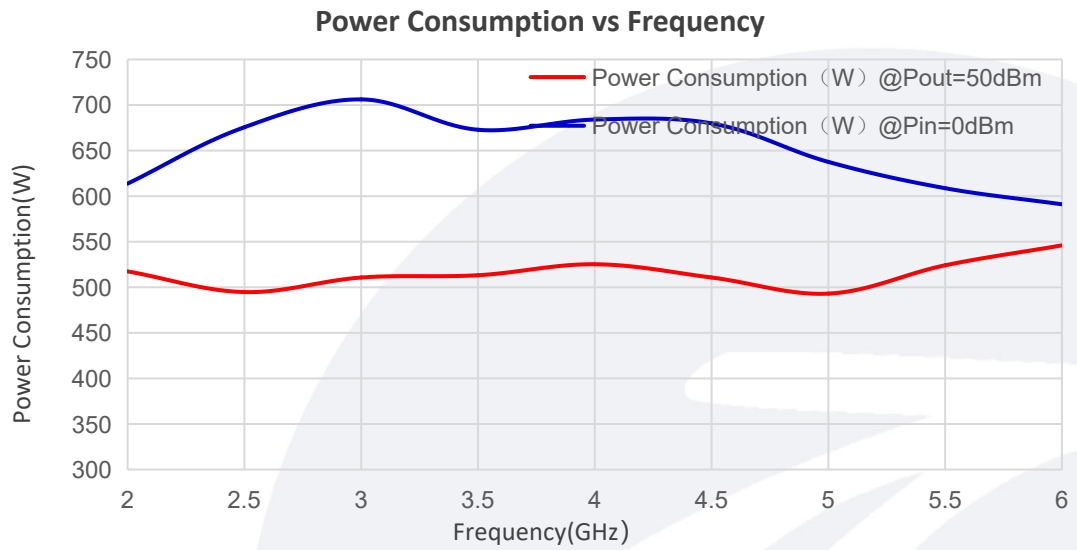
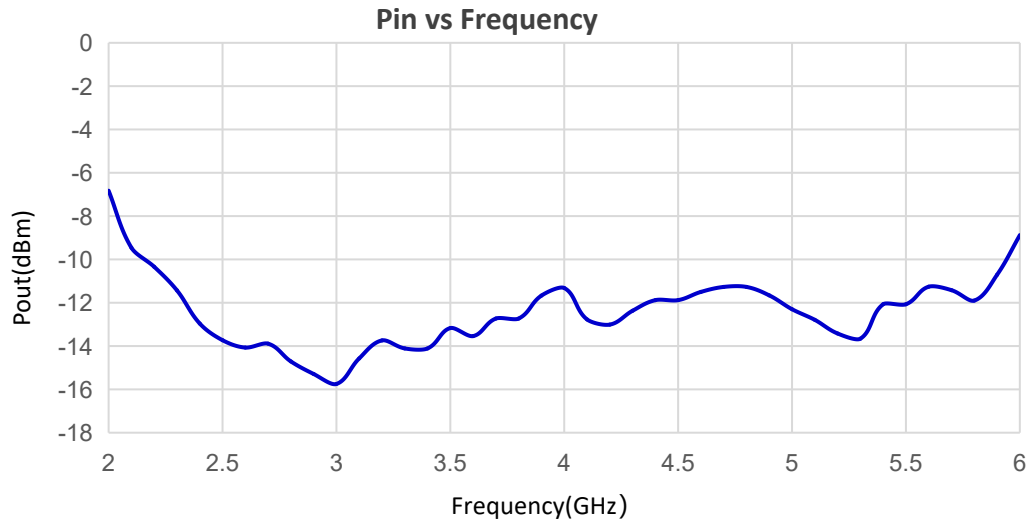
订货信息 Ordering Information:

| 标准型号 Part Number | 描述 Description | 版本号Revision |
|------------------|--|-------------|
| TLPA2G6G-50-50 | Solid State High Power Amplifier,2-6GHz,Gain:50dB,Psat:50dBm,28V DC Protection:Over TEM,over voltage, over current,over VSWR,undervoltage protection. | Rev.1.1 |

典型曲线 Typical Performance Data:

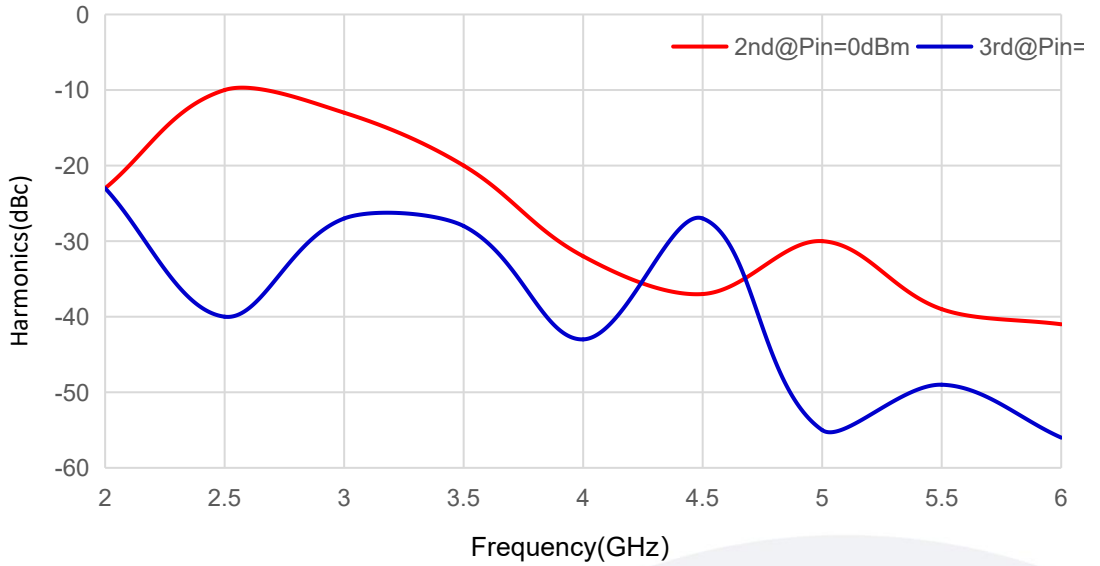


典型曲线 Typical Performance Data:



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Harmonics vs Frequency



Pout@Pin vs Frequency

