

**Model:TLPA0.5G6G-57-57-BC**
**Solid State High Power Amplifier Systems  
 0.5-6GHz,Gain:57dB,Psat:57 dBm,380V AC**
**Feature:**

- Wide Band: 0.5-6GHz
- Gain: 57dB Min
- Psat Output Power:57dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection.
- 50 Ohm Matched Input / Output


**电气特性 Electrical Specifications:**

| 参数Parameter              | 代码<br>Symbo | Min   | Typ     | Max | 单位Units |
|--------------------------|-------------|-------|---------|-----|---------|
| 频率范围 Frequency range     | BW          | 0.5-6 |         |     | GHz     |
| 增益 Gain                  | GP          | 57    |         |     | dB      |
| 增益平坦度 Gain flatness      | $\Delta$ GL |       | $\pm 3$ |     | dB      |
| 饱和输出功率 Output Psat       | Psat        | 57    |         |     | dBm     |
| 增益可调范围 Gain adjust range | $\Delta$ GR |       | 30      |     | dB      |
| 增益可调步进 Gain adjust step  | $\Delta$ GS |       | 0.5     |     | dB      |
| 杂散 Spurious              | Spur        |       |         | -60 | dBc     |
| 谐波 Harmonics             | HAM         |       | -15     | -10 | dBc     |
| 输入驻波 Input VSWR          | VSWRin      |       |         | 2.0 | :1      |
| 交流电压 AC Voltage          | Vac         | 380   |         |     | V AC    |
| 阻抗 Impedance             | I/O-IMP     | 50    |         |     | Ohms    |

**机械特性 Mechanical Specifications:**

| 参数 Parameter                 | 指标 Value              | 单位Units |
|------------------------------|-----------------------|---------|
| 输入接口 Input Connector         | N Female              |         |
| 输出接口 Output Connector        | 7/16 DIN Female       |         |
| 程控接口 Programmable Interfaces | RS422/LAN/GPIB/USB    |         |
| 尺寸 Size                      | 19 Inch 11U*800 depth | mm      |
| 重量 Weight                    | 30                    | Kg      |

**绝对最大值 Absolute Maximum Ratings:**

| 参数 Parameter                 | 指标 Value             |
|------------------------------|----------------------|
| 输入功率 RF Input Power          | 10 dBm               |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

外形尺寸 Outline Drawing:

Unit: mm



主要功能 Key Features:



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

| 参数 Parameter                | 特点 Advantages  |
|-----------------------------|--|
| 控制 Control                  | RS422/LAN, LCD Screen Display  |
| 内置保护功能 Protection functions | 1, Over TEM<br>2, Over voltage<br>3, Over current protection<br>4, Over VSWR |
| 控制功能 Control functions      | Gain/power setting On/Off  |
| 冷却系统 Cooling system         | Built in Cooling system, forced air cooling                                  |

### 温度环境 Environmental Conditions:

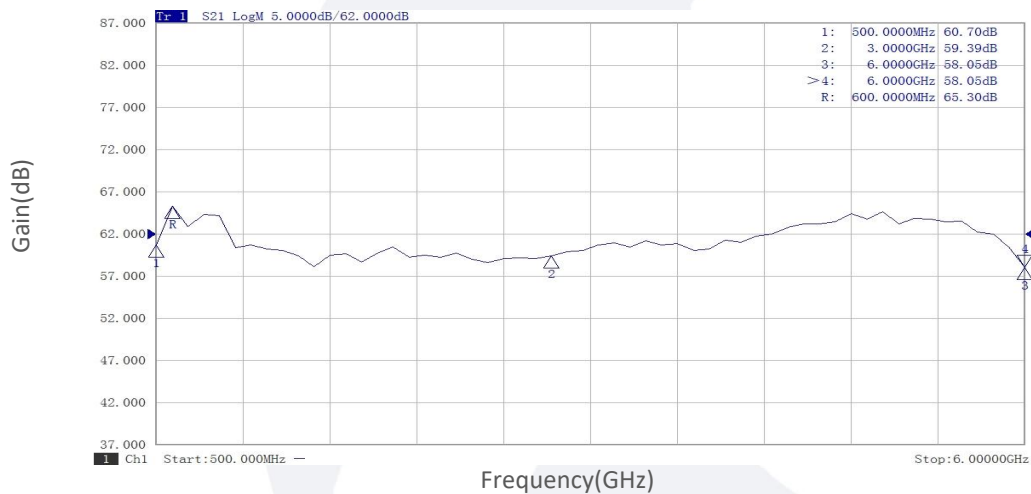
| 参数 Parameter                        | Min   | Typ | Max | 单位 Units |
|-------------------------------------|---|-----|-----|----------|
| 操作温度 Operating Temperature          | -20   |     | +50 | °C       |
| 存储温度 Non-operating Temperature      | -45   |     | +65 | °C       |
| 相对湿度 Relative humidity              |   | 95  |     | %        |
| 海拔 Altitude                         | 50000   |     |     | 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 |
|---------------------|--|--------------|
| TLPA0.5G6G-57-57-BC | Solid State High Power Amplifier Systems 0.5-6GHz,Gain:57dB,Psat:57 dBm,380V AC,Built in Fan Cooling | Rev.1.0      |

### 典型曲线 Typical Performance Data:

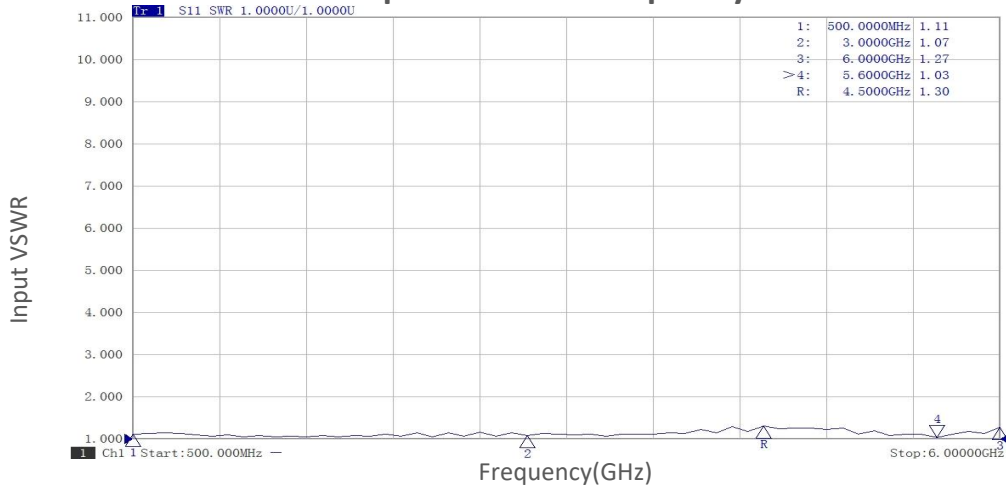
#### Small Signal Gain vs Frequency



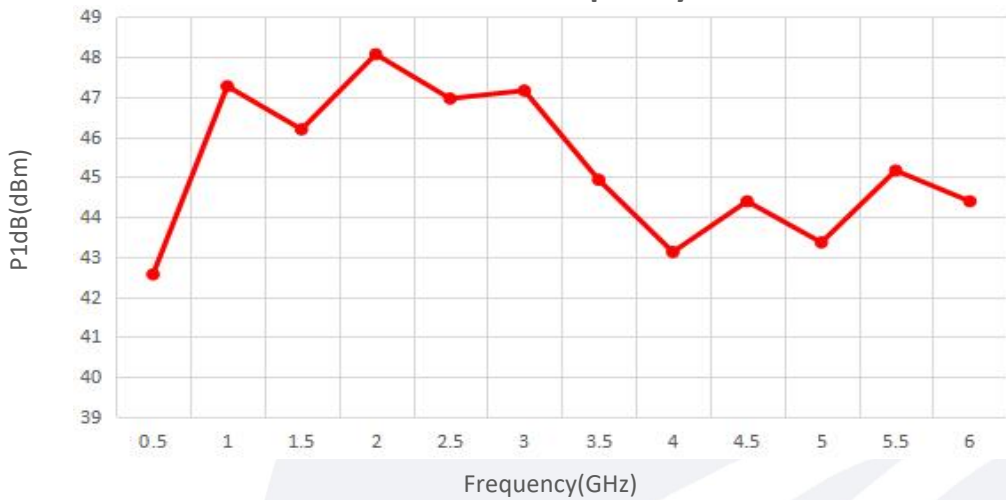
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

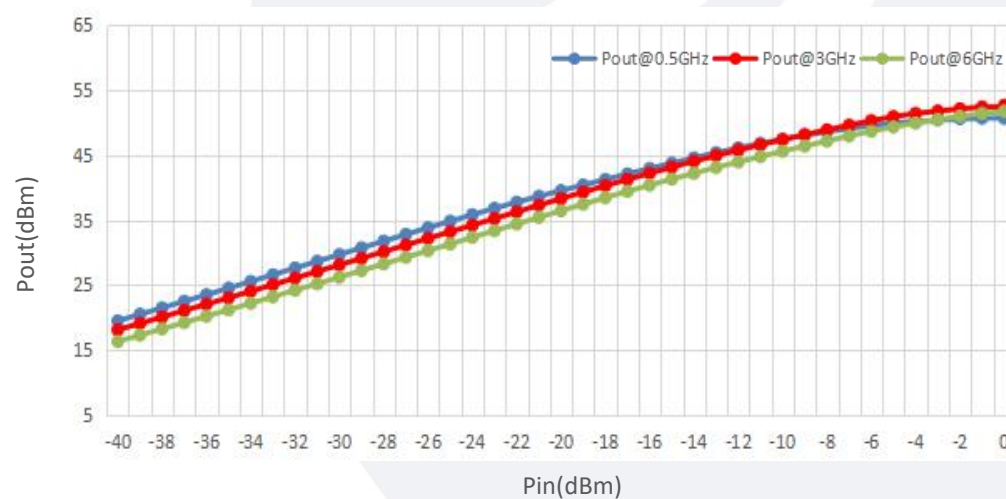
Input VSWR vs Frequency



P1dB vs Frequency



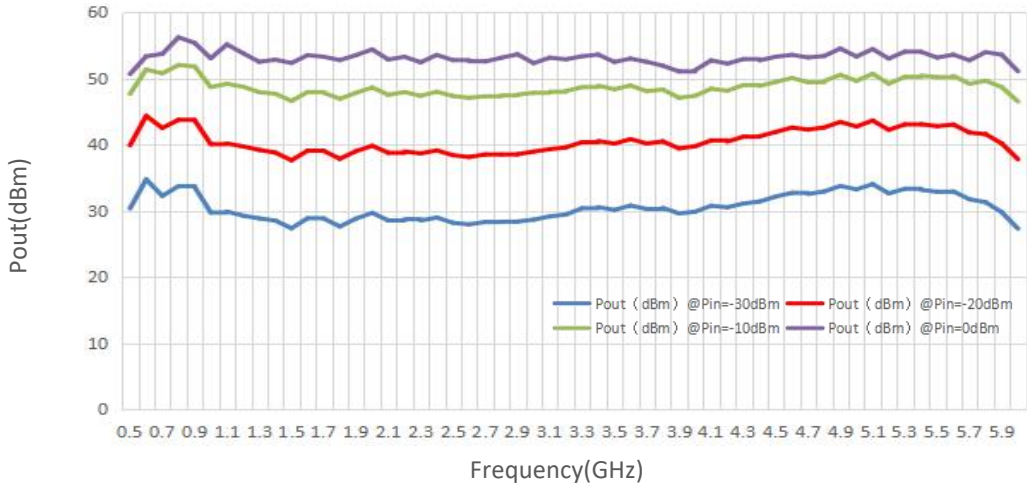
Pout@Pin



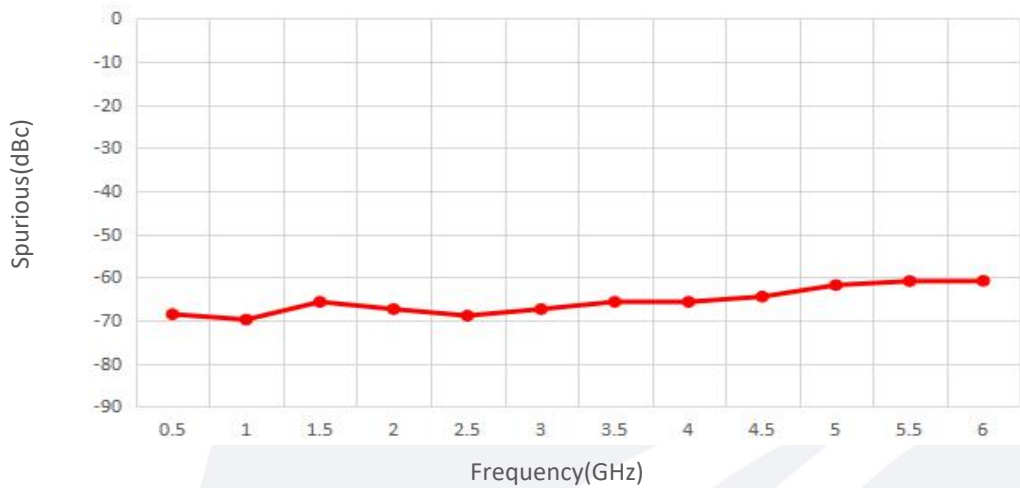
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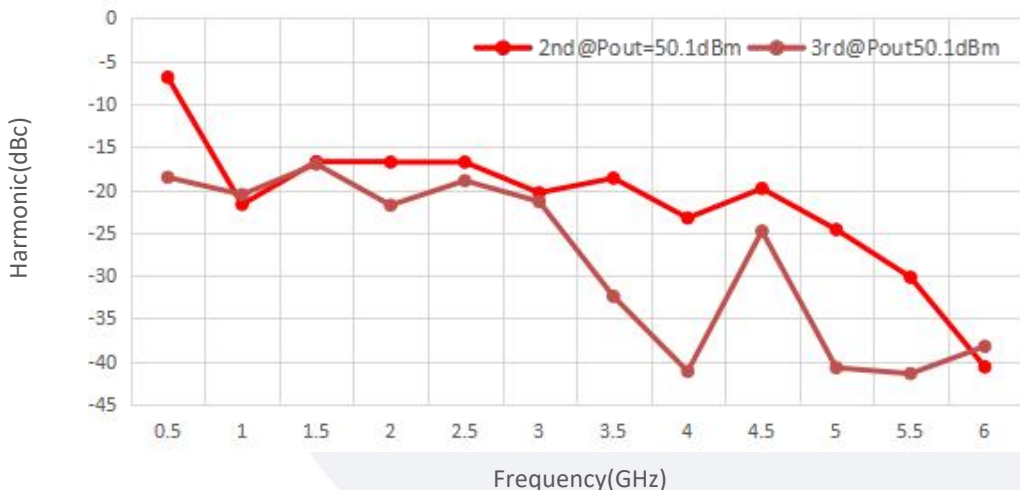
Pout@Equal\_Pin



Spurious vs Frequency



Harmonic vs Frequency



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