

Solid State High Power Amplifier Systems

26.5-40GHz/47dB Gain/47dBm Psat/220V AC

Model: TLPA26.5G40G-47-47-BC

TLPA26.5G40G-47-47-BC is a solid state high power amplifier systems provides high output power and high gain across the 26.5 to 40 GHz frequency range. The amplifier features a built-in 220V power supply, making it easy to use in most lab environments. This model features thermal self protection, preventing damage to the amplifier and providing added reliability.

Features:

- Frequency range: 26.5-40GHz
- Gain: 47dB Min
- Psat Output Power:47dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection
- 50 Ohm Matched Input / Output



电气特性 Electrical Characteristics:

| 参数 Parameter | 代码 Symbol | Min | Typ | Max | 单位 Units |
|----------------------|-------------|---------|---------|------|----------|
| 频率范围 Frequency range | BW | 26.5-40 | | | GHz |
| 功率增益 Power Gain | GP | 47 | | | dB |
| 增益平坦度 Gain flatness | Δ GL | | ± 5 | | dB |
| 饱和输出功率 Output Psat | Psat | 47 | | | dBm |
| 杂散 Spurious | Spur | | | -50 | dBc |
| 谐波 Harmonics | HAM | | | -30 | dBc |
| 输入驻波 Input VSWR | VSWRin | | | 2.0 | :1 |
| 交流电压 AC Voltage | Vac | | 220 | | V AC |
| 功耗 Power Consumption | Pdiss | | | 1400 | W |
| 阻抗 Impedance | I/O-IMP | 50 | | | Ohms |

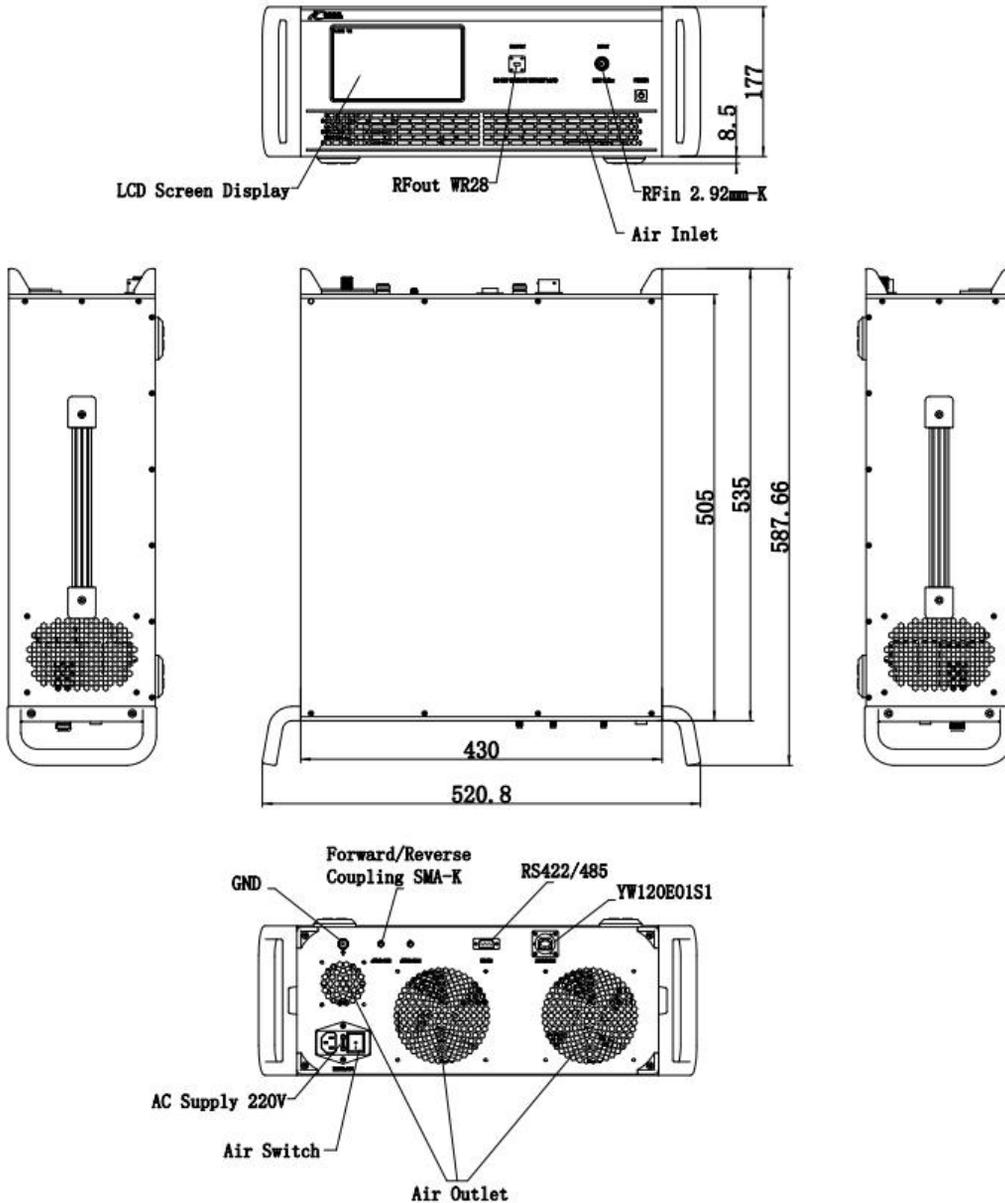
机械特性 Mechanical Specifications:

| 参数 Parameter | 指标 Value | 单位 Units |
|--------------------------------------|---------------------------|----------|
| 输入/输出接口 Input/Output Connector | 2.92 Female/WR28 | |
| 液晶显示屏 Front Panel LCD Screen Display | 7 Inch LCD Screen Display | |
| 通信接口 Communication Interfaces | RJ45/DB9 | |
| 尺寸 Size | 19 Inch 4U | mm |
| 重量 Weight | ≤ 35 | Kg |

绝对最大值 Absolute Maximum Ratings:

| 参数 Parameter | 指标 Value |
|------------------------------|----------------------|
| 输入功率 RF Input Power | +5 dBm |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

外形图 Outline Drawing: Unit:mm



主要功能 Key Features:

| 参数 Parameter | 特点 Advantages |
|-----------------------------|--|
| 控制和监控 Remote Control | RS422/LAN |
| 内置保护功能 Protection functions | 1,Over TEM 2,Over voltage 3,Over current protection 4,Over VSWR |
| 控制功能 Control functions | 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 | | +40 | °C |
| 存储温度 Non-operating Temperature* | -30 | | +50 | °C |
| 相对湿度 Relative humidity | | 95 | | % |
| 海拔 Altitude | 10,000 | | | 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 | | | |

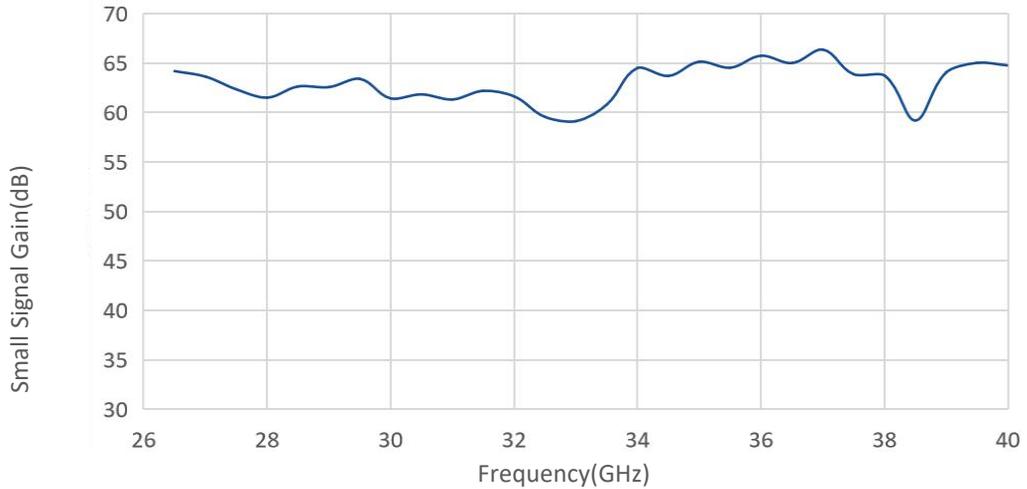
*Note: For a wider temperature range, please consult the manufacturer.

订货信息 Ordering Information:

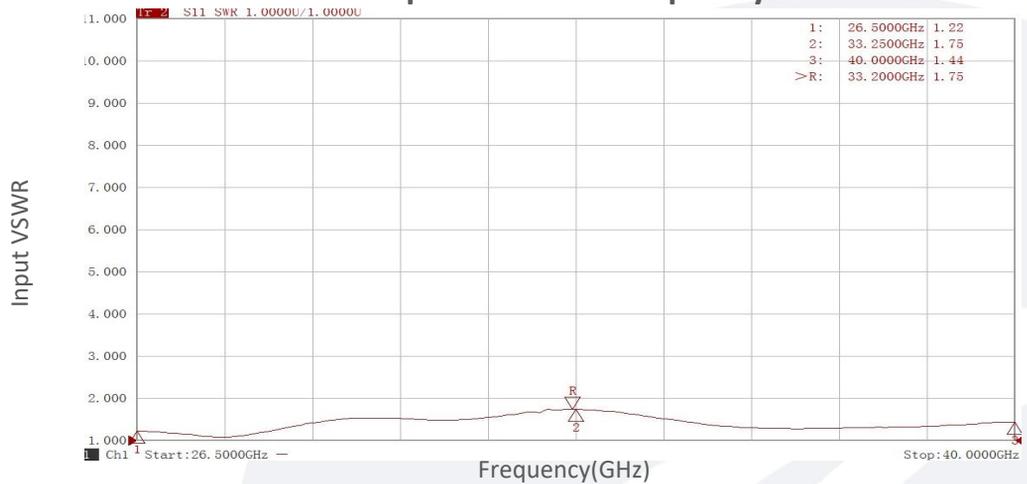
| 标准型号 Base Number | 描述 Description | 版本号 Revision |
|-----------------------|---|--------------|
| TLPA26.5G40G-47-47-BC | Solid State High Power Amplifier Systems 26.5-40GHz,Gain:47dB,Psat:47dBm,220V AC,Built in Fan Cooling | Rev.1.1 |

典型曲线 Typical Performance Data:

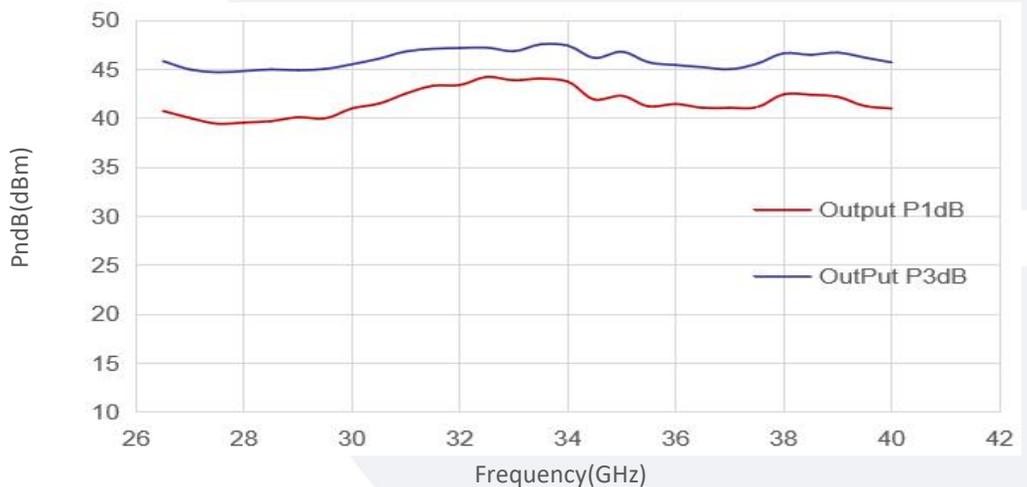
Small Signal Gain vs Frequency



Input VSWR vs Frequency



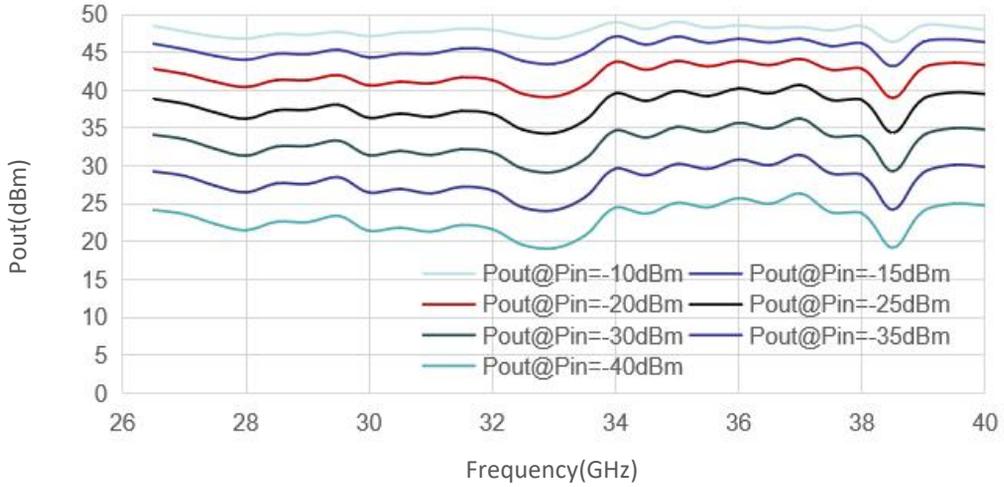
PndB vs Frequency



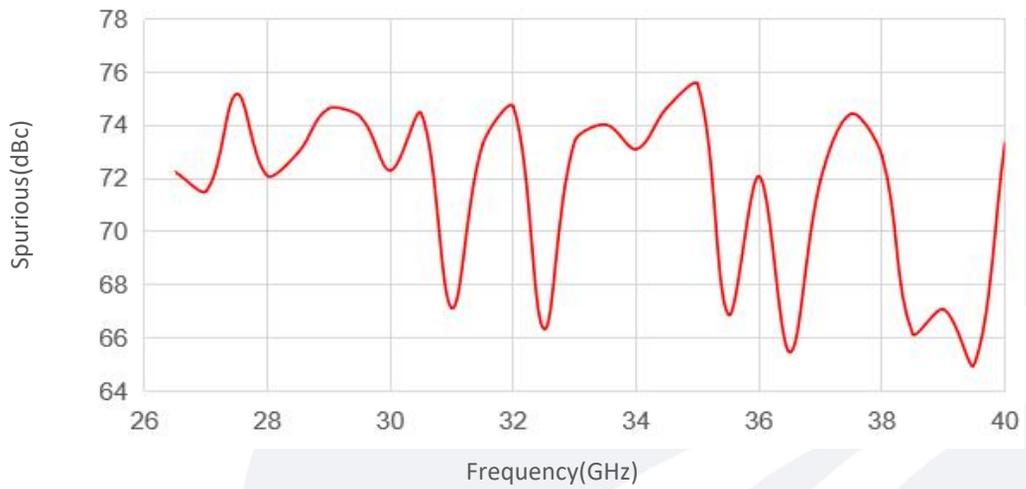
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

Pout@Equal_Pin



Spurious 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.