

Model:TLPA1G40G-40-40-BC-P
**Solid State High Power Amplifier Systems
 1-40GHz,Gain:40dB,Psat:40 dBm,220V AC**
Feature:

- Wide Band:1-40GHz
- Gain: 40dB Min
- Psat Output Power:40dBm 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 Symbo | Min | Typ | Max | 单位Units |
|------------------------|-------------|--------|---------|-----|---------|
| 频率范围 Frequency range | BW | 1-18 | | | GHz |
| | | 18-40 | | | |
| 增益 Gain | GP | 40 | | | dB |
| 增益平坦度 Gain flatness | @1-18GHz | ΔGL | ±3.5 | | dB |
| | @18-40GHz | | ±5 | | |
| 饱和输出功率 Output Psat | Psat | 40 | | | dBm |
| 杂散 Spurious@Pout=40dBm | Spur | | | -60 | dBc |
| 谐波 Harmonics | @1-18GHz | HAM | | -10 | dBc |
| | @18-40GHz | | | -15 | |
| 输入驻波 Input VSWR | @1-18GHz | VSWRin | | 2.0 | :1 |
| | @18-40GHz | | | 2.5 | |
| 交流电压 AC Voltage | Vac | 220 | | | V AC |
| 交流功耗 AC Consumption | @1-18GHz | Pdiss | 400@Max | | W |
| | @18-40GHz | | 300@Max | | |
| 阻抗 Impedance | I/O-IMP | 50 | | | Ohms |

机械特性 Mechanical Specifications:

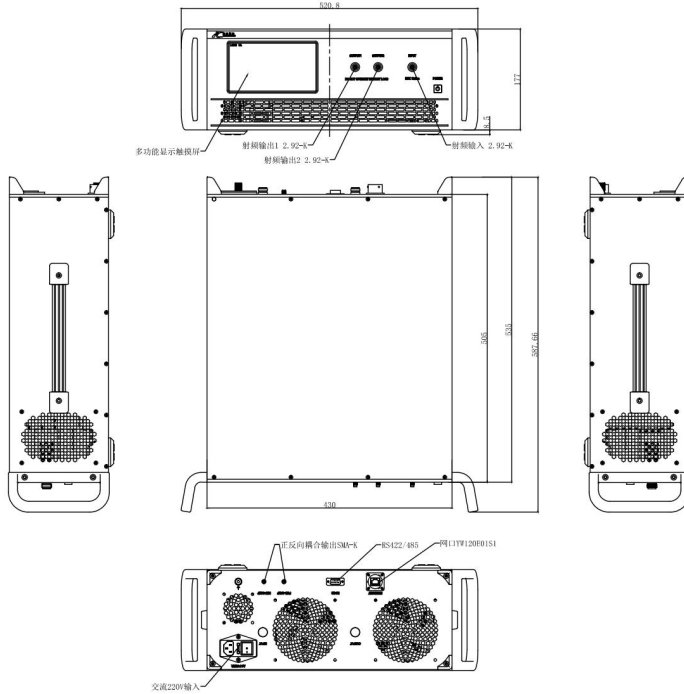
| 参数 Parameter | 指标 Value | 单位Units |
|--------------------------------------|---------------------------|---------|
| 输入输出接口 Input /Output Connector | 2.92 Female/2.92 Female | |
| 液晶显示屏 Front Panel LCD Screen Display | 7 inch LCD Screen Display | |
| 尺寸 Size | 19 Inch 4U*540 | mm |
| 重量 Weight | ≤30 | 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:



| 参数 Parameter | 特点 Advantages |
|-----------------------------|--|
| 控制功能 Control functions | 1, Power setting On/Off 2, ALC automatic level control 3, Frequency Band Switching |
| 内置保护功能 Protection functions | 1, Over TEM 2, Over voltage 3, Over current protection 4, Over VSWR |
| 控制 Control | RS422/Ethernet |
| 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 | -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 |
|----------------------|---|--------------|
| TLPA1G40G-40-40-BC-P | Solid State High Power Amplifier Systems 1-40GHz, Gain:40dB, Psat:40 dBm, 220V AC, Built in Fan Cooling | Rev.1.0 |