

**Model:TLPA17G22G-53-53-BC**
**Solid State High Power Amplifier Systems  
 17-22GHz,Gain:53dB,Psat:53 dBm,220V AC**
**Feature:**

- Wide Band: 17-22GHz
- Gain: 53dB Min
- Psat Output Power:53dBm 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          | 17-22 |     |         | GHz     |
| 小信号增益 Small Signal Gain | SSGP        | 53    |     |         | dB      |
| 增益平坦度 Gain flatness     | $\Delta$ GL |       |     | $\pm 4$ | dB      |
| 饱和输出功率 Output Psat      | Psat        | 53    |     |         | dBm     |
| 杂散 Spurious@Pout=53dBm  | Spur        |       |     | -60     | dBc     |
| 谐波 Harmonics@Pout=53dBm | HAM         |       |     | -20     | dBc     |
| 输入驻波 Input VSWR         | VSWRin      |       |     | 2.0     | :1      |
| 交流电压 AC Voltage         | Vac         |       | 220 |         | V AC    |
| 功耗 Consumption          | Pdiss       |       |     | 3000    | W       |
| 阻抗 Impedance            | I/O-IMP     | 50    |     |         | Ohms    |

**机械特性 Mechanical Specifications:**

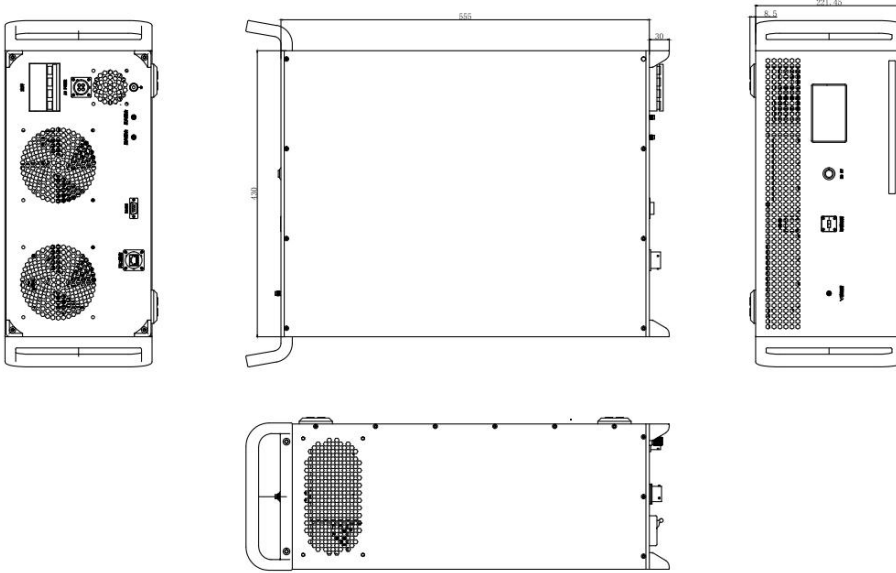
| 参数 Parameter                         | 指标 Value                  | 单位Units |
|--------------------------------------|---------------------------|---------|
| 输入/输出接口 Input /Output Connector      | 2.92mm Female/WR-51       |         |
| 通信接口 Communication Connector         | RJ-45/DB9                 |         |
| 液晶显示屏 Front Panel LCD Screen Display | 7 inch LCD Screen Display |         |
| 尺寸 Size                              | 19 Inch 5U*553            | mm      |
| 重量 Weight                            | $\leq 45$                 | 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  |
|-----------------------------|--|
| 控制功能 Control functions      | 1, Power setting On/Off  |
| 显示功能 Display functions      | 1, Output Power<br>2, Reflect Power<br>3, Fault Informations                 |
| 内置保护功能 Protection functions | 1, Over TEM<br>2, Over voltage<br>3, Over current protection<br>4, Over VSWR |
| 监控和控制 Remote 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   |     | +53 | °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 |
|---------------------|--|--------------|
| TLPA17G22G-53-53-BC | Solid State High Power Amplifier Systems 17-22GHz, Gain:53dB, Psat:53 dBm, 220V AC, Built in Fan Cooling | Rev.1.0      |