

Model:TLPA1G2G-53-53-BC
**Solid State High Power Amplifier Systems
 1-2GHz,Gain:53dB,Psat:53 dBm,220V AC**
Feature:

- Wide Band:1-2GHz
- Gain: 53dB Min
- Psat Output Power:53dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection.
- 50 Ohm Matched Input / Output

Electrical Specifications:

| Parameter | Symbo | Min | Typ | Max | Units |
|----------------------|-------------|----------|---------|-----|-------|
| Frequency range | BW | 1-2 | | | GHz |
| Small Signal Gain | SSGP | 53 | | | dB |
| Gain flatness | Δ GL | | ± 3 | | dB |
| Output Psat | Psat | 53 | | | dBm |
| Spurious@Pout=53dBm | Spur | | | -60 | dBc |
| Harmonics@Pout=53dBm | HAM | | | -10 | dBc |
| Input VSWR | VSWRin | | | 2.0 | :1 |
| AC Voltage | Vac | | 220 | | V AC |
| Power Consumption | Pdiss | 1000@Max | | | W |
| Impedance | I/O-IMP | 50 | | | Ohms |

Mechanical Specifications:

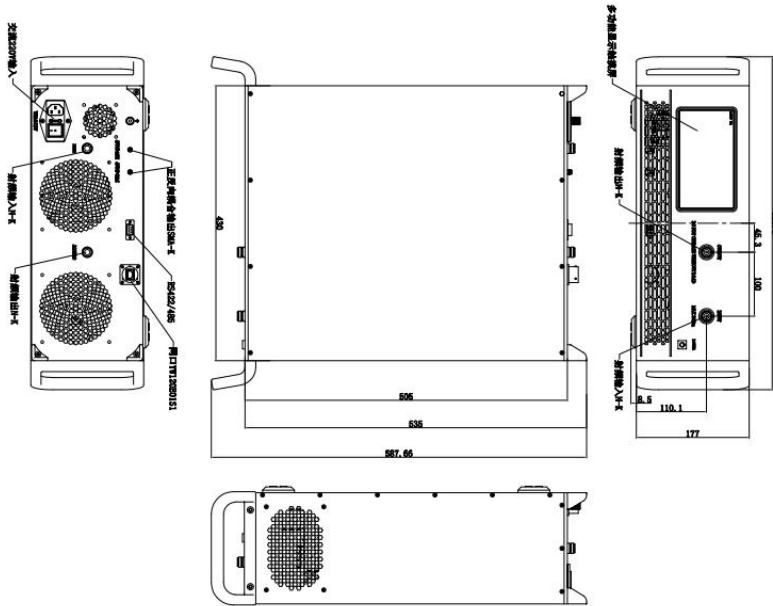
| Parameter | Value | Units |
|--------------------------------|---------------------------|-------|
| Input /Output Connector | N Female/N Female | |
| Forward/Reverse Coupling | SMA Female/ SMA Female | |
| Communication Connector | DB9/RJ45 | |
| Front Panel LCD Screen Display | 7 inch LCD Screen Display | |
| Size | 19 Inch 4U*550 | mm |
| Weight | ≤ 35 | Kg |

Absolute Maximum Ratings:

| Parameter | Value |
|-----------------------|----------------------|
| RF Input Power | 10 dBm |
| ESD sensitivity (HBm) | Class 0, passed 150V |

Outline Drawing:

Unit: mm



Key Features:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

| Parameter | Advantages |
|----------------------|---|
| Control functions | 1, Power setting On/Off 2, ALC automatic level control |
| Protection functions | 1, Over TEM 2, Over voltage 3, Over current 4, Over VSWR |
| Remote control | RS422/Ethernet |
| Cooling system | Built in Cooling system, forced air cooling |

Environmental Conditions:

| Parameter | Min | Typ | Max | Units |
|----------------------------------|---|-----|-----|-------|
| Operating Temperature* | -20 | | +40 | °C |
| Non-operating Temperature* | -30 | | +50 | °C |
| Relative humidity | | 95 | | % |
| Altitude | 10000 | | | feet |
| Shock / Vibration(MIL-STD- 810F) | 25g rms (15 degree 2KHz) endurance, 1 hour per axis | | | |
| Shock(non operating) | 20G for 11msc half sin wave,3 axis both directions | | | |

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

Ordering Information:

| Part Number | Description | Revision |
|-------------------|--|----------|
| TLPA1G2G-53-53-BC | Solid State High Power Amplifier Systems 1-2GHz, Gain:53dB, Psat:53 dBm, 220V AC, Built in Fan Cooling | Rev.1.0 |