

**Model: TLPA0.7G6G-47-47-BC**
**Solid State High Power Amplifier Systems  
 0.7-6GHz, Gain: 47dB, Psat: 47dBm, 220V AC**
**Feature:**

- Wide Band: 0.7-6GHz
- Gain: 47dB Min
- Psat Output Power: 47dBm 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          | 0.7-6      |         |         | GHz   |
| Gain               | GP          | 47         | 52      |         | dB    |
| Gain flatness      | $\Delta$ GL |            | $\pm 3$ | $\pm 5$ | dB    |
| Output Psat        | Psat        | 47         | 48      |         | dBm   |
| Output P1dB        | P1dB        |            | 45      |         | dBm   |
| Gain adujust range | $\Delta$ GR | 30         |         |         | dB    |
| Spurious           | Spur        |            |         | -60     | dBc   |
| Harmonics          | HAM         |            |         | -10     | dBc   |
| Input VSWR         | VSWRin      |            | 1.5     | 2.0     | :1    |
| AC Voltage         | Vac         | 110        | 220     |         | V AC  |
| AC Supply Current  | Iac         | 3A@220V AC |         |         | A     |
| Impedance          | I/O-IMP     | 50         |         |         | Ohms  |

**Mechanical Specifications:**

| Parameter              | Value             | Units |
|------------------------|-------------------|-------|
| Input/Output Connector | N Female/N Female |       |
| Size                   | 3U*500 depth      | mm    |
| Weight                 | 15                | Kg    |

**Absolute Maximum Ratings:**

| Parameter             | Value                |
|-----------------------|----------------------|
| RF Input Power        | 5 dBm                |
| ESD sensitivity (HBm) | Class 0, passed 150V |

**Outline Drawing:**

Unit: mm



**Key Features:**



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

| Parameter            | Advantages   |
|----------------------|--|
| Control              | RS422/Ethernet, LCD Screen Display   |
| Protection functions | 1, Over TEM<br>2, Over voltage<br>3, Over current protection<br>4, Over VSWR |
| Control functions    | 1, Power setting On/Off<br>2, ALC  |
| Cooling system       | Built in Cooling system, forced air cooling                                  |

**Environmental Conditions:**

| Parameter                        | Min   | Typ | Max  | Units |
|----------------------------------|---|-----|------|-------|
| Operating Temperature            | -45   |     | +50  | °C    |
| Non-operating Temperature        | -55   |     | +125 | °C    |
| Relative humidity                |   | 95  |      | %     |
| Altitude                         | 30000   |     |      | 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  |     |      |       |

**Ordering Information:**

| Part Number         | Description   | Revision |
|---------------------|---|----------|
| TLPA0.7G6G-47-47-BC | Solid State High Power Amplifier Systems 0.7-6GHz,Gain:47dB,Psat:47dBm,220V AC,Built in Fan Cooling | Rev.1.0  |