

## Model:TLPA18G26.5G-40-37

## Power Amplifier

18-26.5GHz,Gain:40dB,Psat:37dBm

### Feature:

- Ultra Wide Band:18-26.5GHz
- Gain:40dB Min
- Psat Output Power:37dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

### Electrical Specifications:

| Parameter         | Min     | Typ | Max | Units |
|-------------------|---------|-----|-----|-------|
| Frequency range   | 18-26.5 |     |     | GHz   |
| Gain              |         | 40  |     | dB    |
| Output Psat       | 37      |     |     | dBm   |
| Spurious          |         |     | -50 | dBc   |
| Harmonics         |         |     | -20 | dBc   |
| Input VSWR        |         | 2   |     | :1    |
| DC Voltage        |         | +24 |     | V DC  |
| DC Supply Current |         | 3.5 |     | A     |
| Impedance         | 50      |     |     | Ohms  |

### Mechanical Specifications:

| Parameter               | Value                   | Units |
|-------------------------|-------------------------|-------|
| Input /Output Connector | 2.92 Female/2.92 Female |       |
| DC Bias                 | Solder Pin              |       |
| Size                    | /                       | mm    |
| Weight                  | 1                       | Kg    |

### Absolute Maximum Ratings:

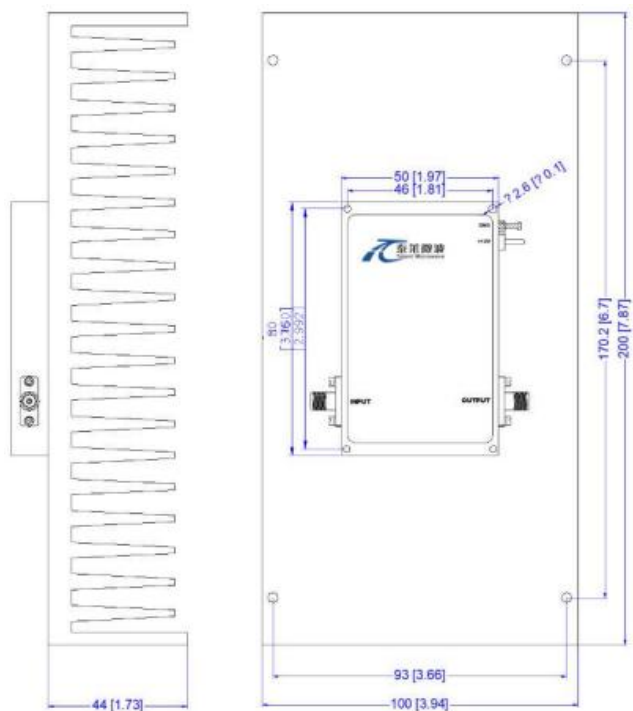
| Parameter             | Value                |
|-----------------------|----------------------|
| Supply Bias Voltage   | +30V                 |
| RF Input Power        | 10dBm                |
| ESD sensitivity (HBm) | Class 0, passed 150V |



Available 220V System  
Benchtop Amplifier

## Outline Drawing:

Unit: mm



### \*\*\*Heat Sink Required During Operation



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

### Environmental Conditions:

| Parameter                       | Min                                                 | Typ | Max | Units |
|---------------------------------|-----------------------------------------------------|-----|-----|-------|
| Operating Temperature           | -0                                                  |     | +50 | °C    |
| Non-operating Temperature       | -20                                                 |     | +75 | °C    |
| Relative humidity               |                                                     | 95  |     | %     |
| Altitude                        | 50000                                               |     |     | 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 |
|-----------------------|---------------------------------------------------------------------------|----------|
| TLPA18G26.5G-40-37    | Power amplifier 18-26.5GHz,Gain 40dB,Psat:37dBm,+24V DC,Without Heatsink. | Rev.1.1  |
| TLPA18G26.5G-40-37-HS | Power amplifier 18-26.5GHz,Gain 40dB,Psat:37dBm,+24V DC,With Heatsink.    | Rev.1.1  |