

Model: TLLA1G18G-55-25
Low Noise Amplifier
1-18GHz, NF:3dB, Gain:50dB, P1dB:15dBm
Feature:

- Ultra Wide Band: 1-18GHz
- Gain: 50dB Min
- Noise Figure: 3dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

| Parameter | Min | Typ | Max | Units |
|-------------------|------|-----|-----|-------|
| Frequency range | 1-18 | | | GHz |
| Gain | 50 | | | dB |
| Gain Flatness | | ±3 | | dB |
| Noise Figure | | 3 | | dB |
| P1dB | | 15 | | dBm |
| Spurious | | | -60 | dBc |
| Harmonics | | | -10 | dBc |
| Input VSWR | | 2.0 | | :1 |
| Output VSWR | | 2.0 | | :1 |
| DC Voltage | | +12 | | V DC |
| Power Consumption | | 3 | | W |
| Impedance | 50 | | | Ohms |

Mechanical Specifications:

| Parameter | Value | Units |
|-------------------------|------------|-------|
| Input /Output Connector | SMA Female | |
| Bias | Solder Pin | |
| Size | 60*65*11 | mm |
| Weight | 200 | g |

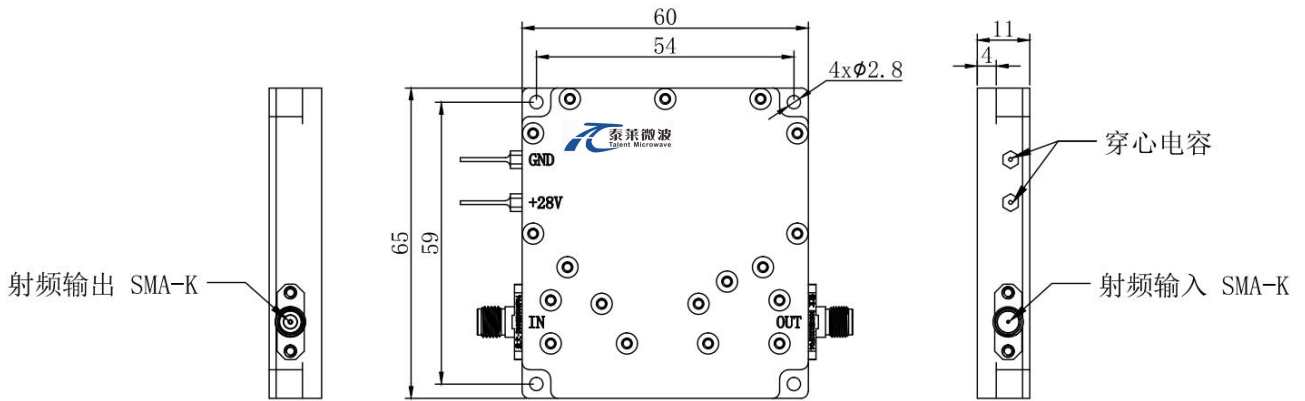

 Available 220V System
 Benchtop Amplifier

Absolute Maximum Ratings:

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

Outline Drawing:

Unit: mm(inches)



*****Heat Sink Required During Operation**



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

| Parameter | Min | Typ | Max | Units |
|---------------------------------|---|-----|------|-------|
| Operating Temperature | -40 | | +60 | °C |
| Non-operating Temperature | -55 | | +125 | °C |
| Relative humidity | | 95 | | % |
| Altitude | 50,000 | | | 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 |
|--------------------|--|----------|
| TLLA1G18G-55-25 | Low Noise Amplifier, 1-18GHz, Noise Figure:3dB, Gain:50 dB,P1dB:15dBm,+12V DC,Without Heatsink | Rev.1.1 |
| TLLA1G18G-55-25-HS | Low Noise Amplifier, 1-18GHz, Noise Figure:3dB, Gain:50 dB,P1dB:15dBm,+12V DC,With Heatsink | Rev.1.1 |