泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
+86-0512-62657975
sales@talentmw.com
www.talentmw.com

# Model:TLPA18G40G-38-27

## Power Amplifier
## 18-40GHz,Gain:38dB,Psat:27dBm

**Feature:**

- Ultra Wide Band: 18-40GHz
- Gain:38dB Min
- Psat Output Power:27dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

## Electrical Specifications:

| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Frequency range | | 18-40 | | GHz |
| Gain | 38 | 43 | | dB |
| Gain Flatness | | ±2.5 | | dB |
| Output P1dB | | 27 | | dBm |
| Output Psat | 27 | 28 | | dBm |
| Input VSWR | | 2 | | :1 |
| Output VSWR | | 2 | | :1 |
| DC Voltage | | +12 | | V DC |
| DC Supply Current | | 800 | | mA |
| Impedance | | 50 | | Ohms |

## Mechanical Specifications:

| Parameter | Value | Units |
|---|---|---|
| Input /Output Connector | 2.92 Female/2.92 Female | |
| DC Bias | Solder Pin | |
| Size | 60*50*12 | mm |
| Weight | / | g |

## Absolute Maximum Ratings:

| Parameter | Value |
|---|---|
| Supply Bias Voltage | 15V |
| RF Input Power | 10dBm |
| ESD sensitivity (HBm) | Class 0, passed 150V |

Available 220V System
Benchtop Amplifier

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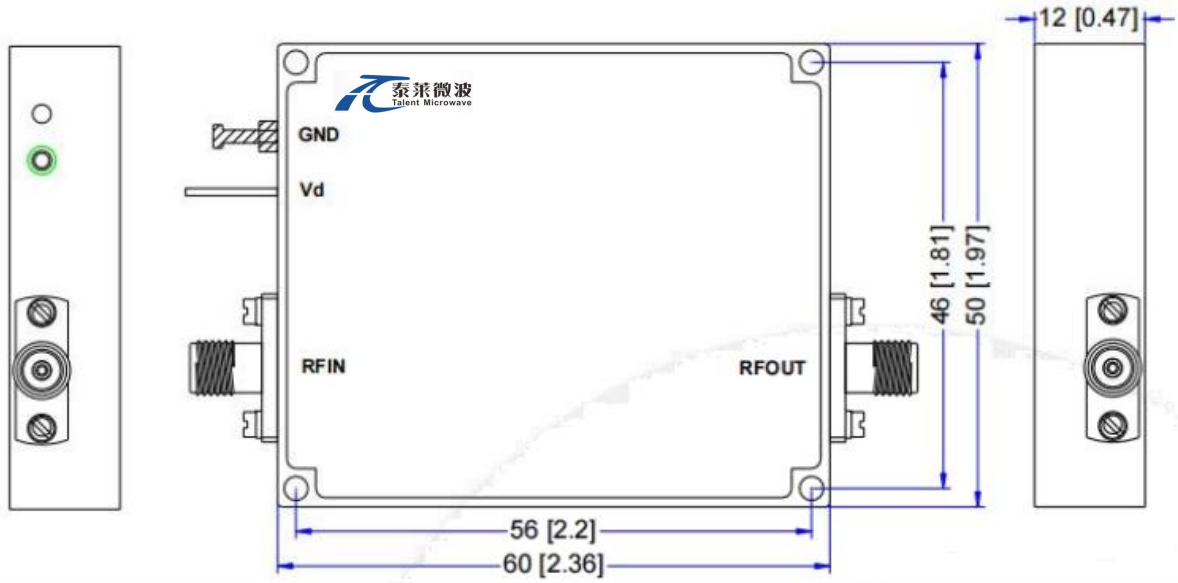
## Outline Drawing:

Unit: mm




***Heat Sink Required During Operation

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

## Environmental Conditions:

| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Operating Temperature | -40 | | +75 | ℃ |
| Non-operating Temperature | -55 | | +125 | ℃ |
| Relative humidity | | 95 | | % |
| Altitude | 30,000 | | | 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 |
|---|---|---|
| TLPA18G40G-38-27 | Power amplifier 18-40GHz,Gain:38dB,Psat:27dBm,+12V DC,Without Heatsink. | Rev.1.1 |
| TLPA18G40G-38-27-HS | Power amplifier 18-40GHz,Gain:38dB,Psat:27dBm,+12V DC,With Heatsink. | Rev.1.1 |

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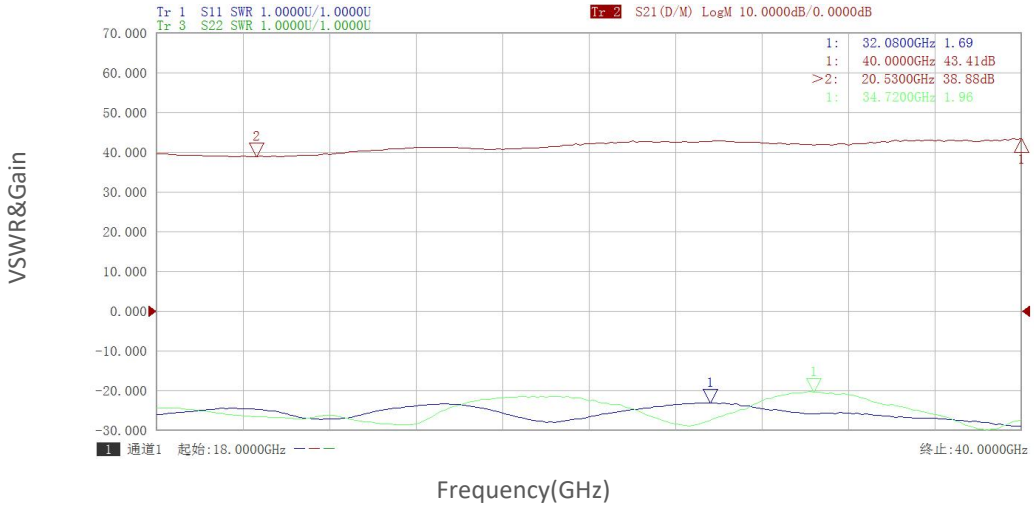
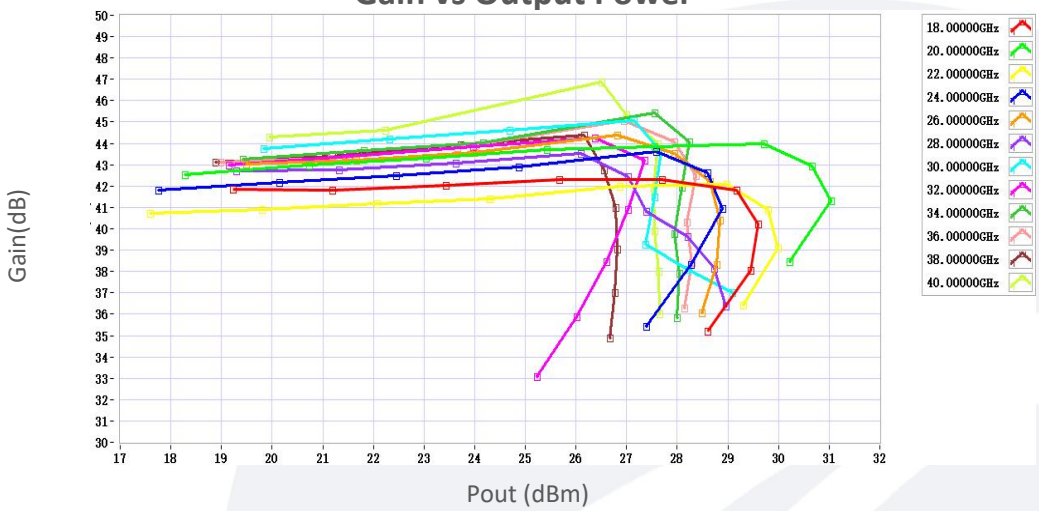
## Typical Performance Data:

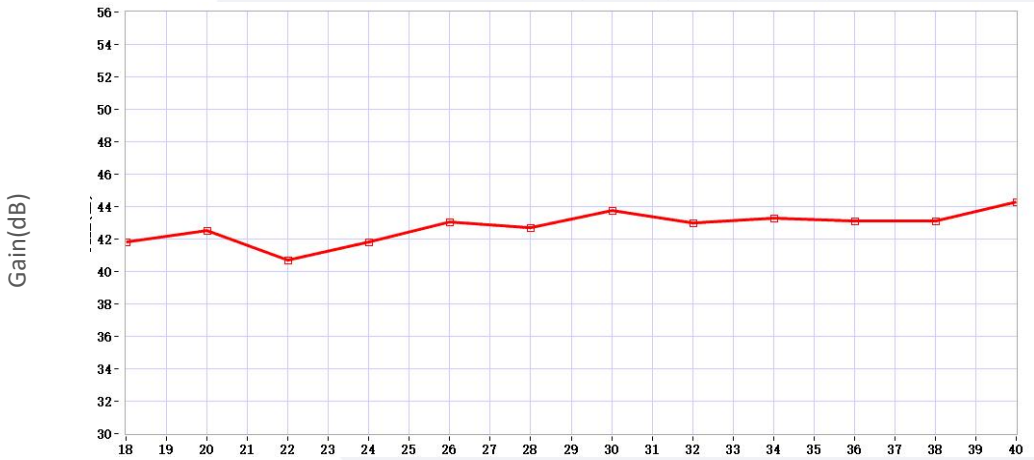
### VSWR&Gain vs Frequency




### Gain vs Output Power




### Gain vs Frequency




Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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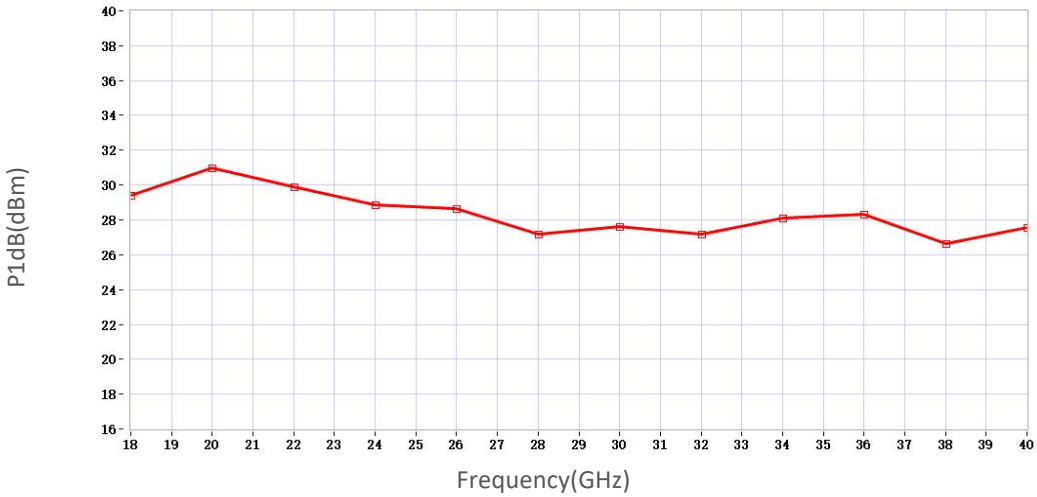
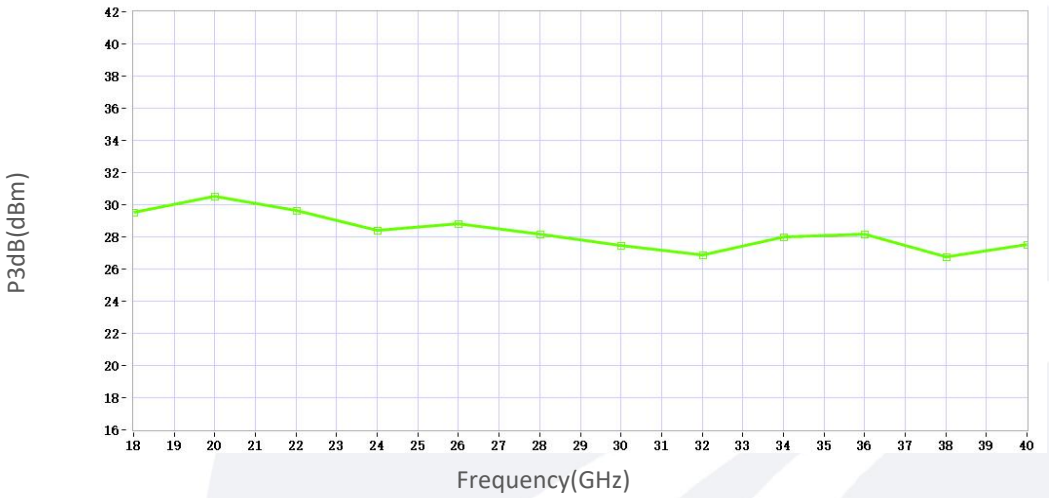
## Typical Performance Data:

### P1dB vs Frequency




### P3dB vs Frequency

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