

TURLA33G67G-4750

TURLA33G67G-4750 is a low noise amplifier with a typical small signal gain of 47 dB and a nominal noise figure of 5.0dB@33-50GHz across the frequency range of 33 to 67 GHz. The DC power requirement for the amplifier is +5 V DC/750 mA. The input and output port configuration offers coax adapter structure with 1.85mm female.

Features:

- Frequency range: 33-67GHz
- Gain: 47dB Typ
- Noise Figure: 5.0dB Typ@33-50GHz
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Applications:

- Communication systems

电气特性 Electrical Characteristics:

| 参数 Parameter            |           | Min | Typ | Max | 单位 Units |
|-------------------------|-----------|-----|-----|-----|----------|
| 频率范围 Frequency range    |           | 33  |     | 67  | GHz      |
| 小信号增益 Small Signal Gain |           | 45  | 47  |     | dB       |
| 噪声系数 Noise Figure       | @33-50GHz |     | 5   |     | dB       |
|                         | @50-67GHz |     | 7   |     | dB       |
| 线性输出功率 Output P1dB      | @33-50GHz |     | 20  |     | dBm      |
|                         | @50-67GHz |     | 18  |     | dBm      |
| 输入驻波 Input VSWR         |           |     | 1.8 |     | :1       |
| 输出驻波 Output VSWR        |           |     | 1.8 |     | :1       |
| 直流电压 DC Voltage         |           |     | +5  | +8  | V DC     |
| 直流电流 DC Supply Current  |           |     | 750 |     | mA       |
| 阻抗 Impedance            |           | 50  |     |     | Ohms     |

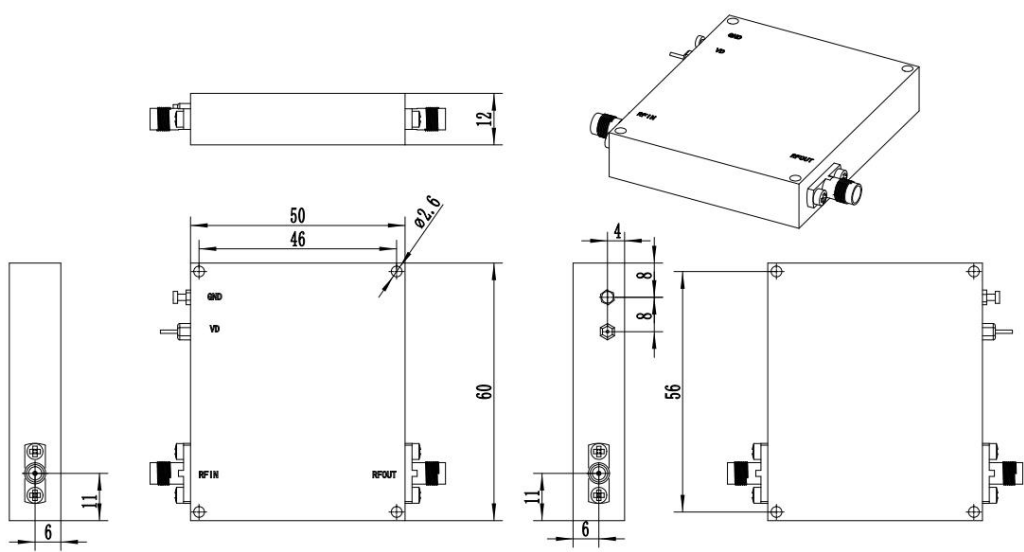
机械特性 Mechanical Specifications:

| 参数 Parameter                    | 指标 Value                    | 单位 Units |
|---------------------------------|-----------------------------|----------|
| 输入/输出接口 Input /Output Connector | 1.85mm Female/1.85mm Female |          |

绝对最大值 Absolute Maximum Ratings:

| 参数 Parameter                 | 指标 Value             |
|------------------------------|----------------------|
| 供电偏置电压 Supply Bias Voltage   | +8 V                 |
| 输入功率 RF Input Power          | +5 dBm               |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

外形图 Outline Drawing: Unit:mm



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ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

温度环境 Environmental Conditions:

| 参数 Parameter                       | Min                                                 | Typ    | Max  | 单位 Units |
|------------------------------------|-----------------------------------------------------|--------|------|----------|
| 操作温度 Operating Temperature         | -45                                                 |        | +85  | ℃        |
| 存储温度 Non-operating Temperature     | -55                                                 |        | +125 | ℃        |
| 相对湿度 Relative humidity             |                                                     | 95     |      | %        |
| 海拔 Altitude                        |                                                     | 10,000 |      | feet     |
| 震动 Shock / Vibration(MIL-STD-810F) | 25g rms (15 degree 2KHz) endurance, 1 hour per axis |        |      |          |

订货信息 Ordering Information:

| 标准型号 Base Number    | 描述 Description                                                                                                     | 版本号 Revision |
|---------------------|--------------------------------------------------------------------------------------------------------------------|--------------|
| TURLA33G67G-4750    | Low Noise Amplifier, 33-67GHz, Noise Figure:5.0dB@33-50GHz, Gain:47 dB,P1dB:20dBm@33-50GHz,+5V DC,Without Heatsink | Rev.1.1      |
| TURLA33G67G-4750 HS | Low Noise Amplifier, 33-67GHz, Noise Figure:5.0dB@33-50GHz, Gain:47 dB,P1dB:20dBm@33-50GHz,+5V DC,With Heatsink    | Rev.1.1      |