

TURLA50K67G-1250

TURLA50K67G-1250 is a low noise amplifier with a typical small signal gain of 12 dB and a nominal noise figure of 5.0 dB across the frequency range of 50 KHz to 67 GHz. The DC power requirement for the amplifier is +8 V DC/95 mA. The input and output port configuration offers coax adapter structure with 1.85mm female.

Features:

- Frequency range: 50KHz-67GHz
- Gain: 12dB Typ
- Noise Figure: 5.0dB Typ
- 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 | 50KHz-67GHz | | | |
| 小信号增益 Small Signal Gain | | 12 | | dB |
| 增益平坦度 Gain Flatness | | ±2.0 | | dB |
| 噪声系数 Noise Figure | | 5 | 6 | dB |
| 线性输出功率 Output P1dB | | 15 | | dBm |
| 输出三阶交调 Output IP3 | | 20 | | dBm |
| 输入驻波 Input VSWR | | 2.0 | | :1 |
| 输出驻波 Output VSWR | | 2.0 | | :1 |
| 直流电压 DC Voltage | | +8 | | V DC |
| 直流电流 DC Supply Current | | 95 | | mA |
| 阻抗 Impedance | 50 | | | Ohms |

机械特性 Mechanical Specifications:

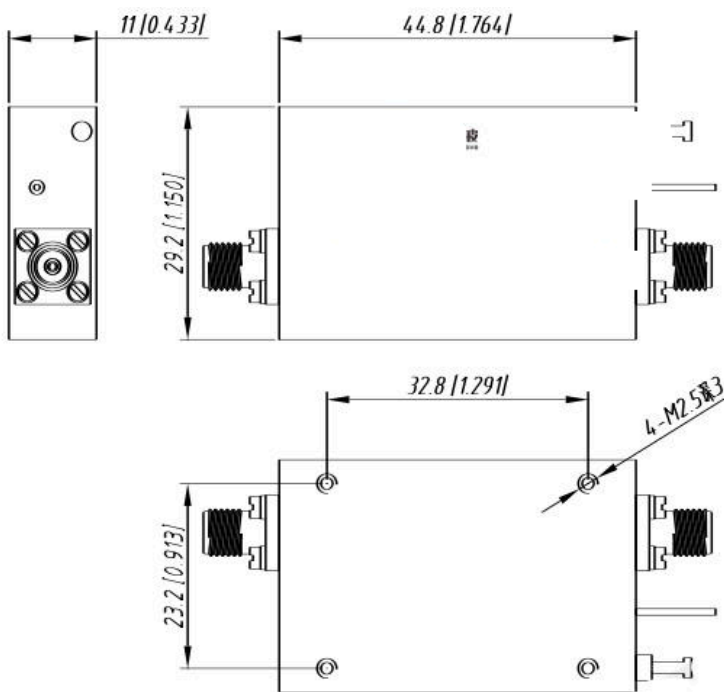
| 参数 Parameter | 指标 Value | 单位 Units |
|---------------------------------|-----------------------------|----------|
| 输入/输出接口 Input /Output Connector | 1.85mm Female/1.85mm Female | |

绝对最大值 Absolute Maximum Ratings:

| 参数 Parameter | 指标 Value |
|------------------------------|----------------------|
| 供电偏置电压 Supply Bias Voltage | TBD |
| 输入功率 RF Input Power | +10 dBm |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

外形图 Outline Drawing:

Unit:mm





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

温度环境 Environmental Conditions:

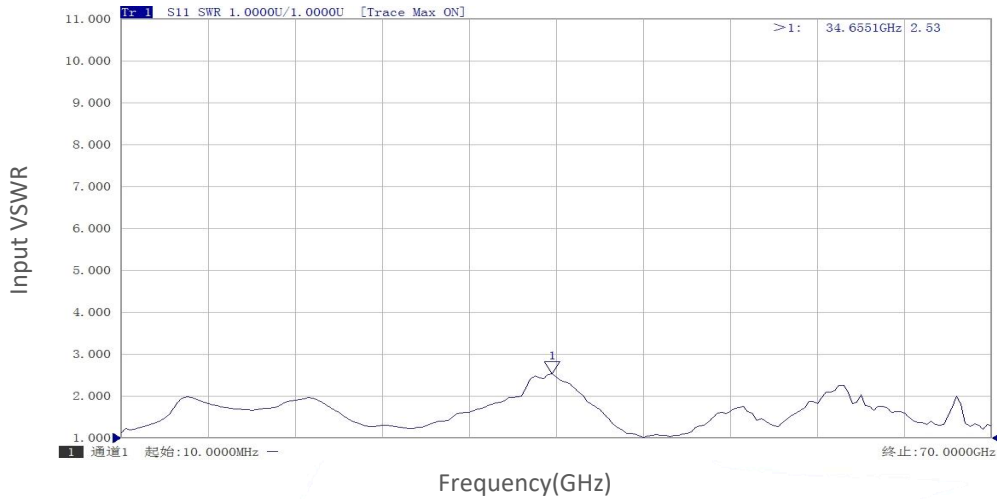
| 参数 Parameter | Min | Typ | Max | 单位 Units |
|------------------------------------|---|--------|------|----------|
| 操作温度 Operating Temperature | -45 | | +85 | °C |
| 存储温度 Non-operating Temperature | -55 | | +125 | °C |
| 相对湿度 Relative humidity | | 95 | | % |
| 海拔 Altitude | | 50,000 | | feet |
| 震动 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 |
|---------------------|---|--------------|
| TURLA50K67G-1250 | Low Noise Amplifier, 50KHz-67GHz, Noise Figure:5.0dB, Gain:12 dB,P1dB:15dBm,+8V DC,Without Heatsink | Rev.1.1 |
| TURLA50K67G-1250 HS | Low Noise Amplifier, 50KHz-67GHz, Noise Figure:5.0dB, Gain:12 dB,P1dB:15dBm,+8V DC,With Heatsink | Rev.1.1 |

典型曲线 Typical Performance Data:

Input VSWR vs Frequency



Gain vs Frequency

