

TURLA2G4G-4015

TURLA2G4G-4015 is a low noise amplifier with a minimum small signal gain of 40 dB and a maximum noise figure of 1.5 dB across the frequency range of 2 to 4 GHz. The DC power requirement for the amplifier is +12 V DC/320 mA. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 2-4GHz
- Gain: 40dB Min
- Noise Figure: 1.5dB Max
- 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 | 2 | | 4 | GHz |
| 小信号增益 Small Signal Gain | 40 | 41 | | dB |
| 噪声系数 Noise Figure | | 1.0 | 1.5 | dB |
| 线性输出功率 Output P1dB | 20 | 24 | | dBm |
| 饱和输出功率 Output Psat | | 25 | | dBm |
| 输入驻波 Input VSWR | | 1.6 | | :1 |
| 输出驻波 Output VSWR | | 1.8 | | :1 |
| 直流电压 DC Voltage | +8 | +12 | +14 | V DC |
| 直流电流 DC Supply Current | | 320 | | mA |
| 阻抗 Impedance | | 50 | | Ohms |

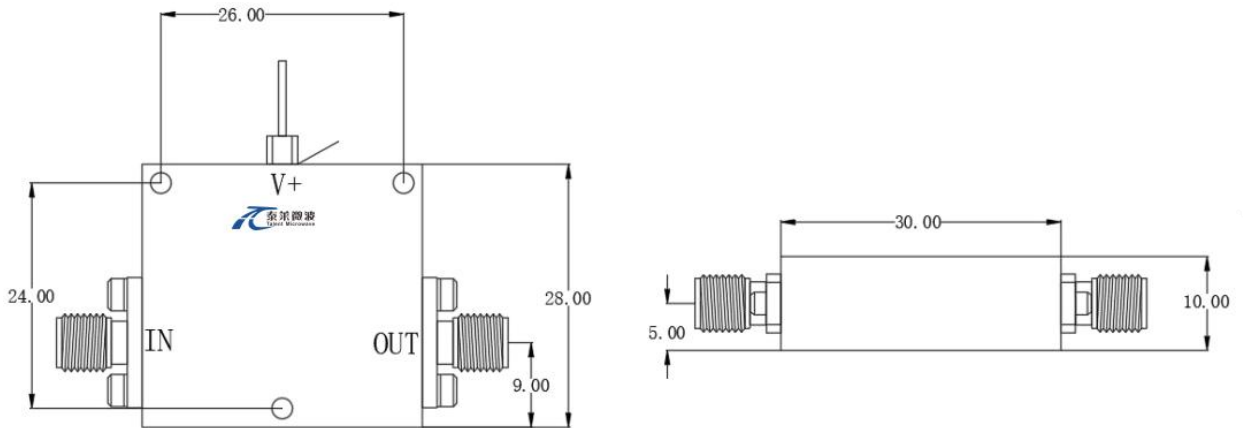
机械特性 Mechanical Specifications:

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

绝对最大值 Absolute Maximum Ratings:

| 参数 Parameter | 指标 Value |
|------------------------------|----------------------|
| 供电偏置电压 Supply Bias Voltage | +14 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





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 | | | |
| 冲击 Shock(non operating) | 20G for 11msc half sin wave,3 axis both directions | | | |

订货信息 Ordering Information:

| 标准型号 Base Number | 描述 Description | 版本号 Revision |
|-------------------|---|--------------|
| TURLA2G4G-4015 | Low Noise Amplifier, 2-4GHz, Noise Figure:1.5dB, Gain:40 dB,P1dB:24dBm,+12V DC,Without Heatsink | Rev.1.1 |
| TURLA2G4G-4015 HS | Low Noise Amplifier, 2-4GHz, Noise Figure:1.5dB, Gain:40 dB,P1dB:24dBm,+12V DC,With Heatsink | Rev.1.1 |