

Model:TLLA0.9G2.5G-15-15
Low Noise Amplifier
0.9-2.5GHz, NF:1.5dB, Gain:15dB,P1dB:15dBm
Feature:

- Ultra Wide Band: 0.9-2.5GHz
- Gain: 15dB Typ
- Noise Figure: 1.5dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

电气特性 Electrical Specifications:

| 参数 Parameter | Min | Typ | Max | 单位 Units |
|------------------------|---------|-------|-----|----------|
| 频率范围 Frequency range | 0.9-2.5 | | | GHz |
| 增益 Gain | | 15 | | dB |
| 增益平坦度 Gain Flatness | | ±0.75 | | dB |
| 噪声系数 Noise Figure | | 1.3 | 1.5 | dB |
| 线性输出功率 Output P1dB | 15 | 17 | | dBm |
| 输入驻波 Input VSWR | | 1.4 | 1.6 | :1 |
| 输出驻波 Output VSWR | | 1.4 | 1.6 | :1 |
| 直流电压 DC Voltage | | +12 | | V DC |
| 直流电流 DC Supply Current | | 60 | | 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 | |
| 直流偏置 DC Bias | Solder Pin | |
| 尺寸 Size | 44.8*29.2*11 | mm |
| 重量 Weight | 55 | g |

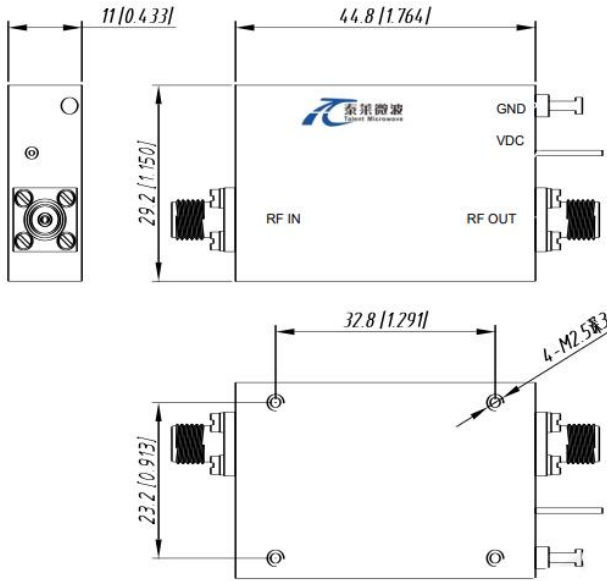

 Available 220V System
 Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

| 参数 Parameter | 指标 Value |
|------------------------------|----------------------|
| 供电偏置电压 Supply Bias Voltage | +15V |
| 输入功率 RF Input Power | 12 dBm |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

外形尺寸 Outline Drawing:

Unit: mm(inches)



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

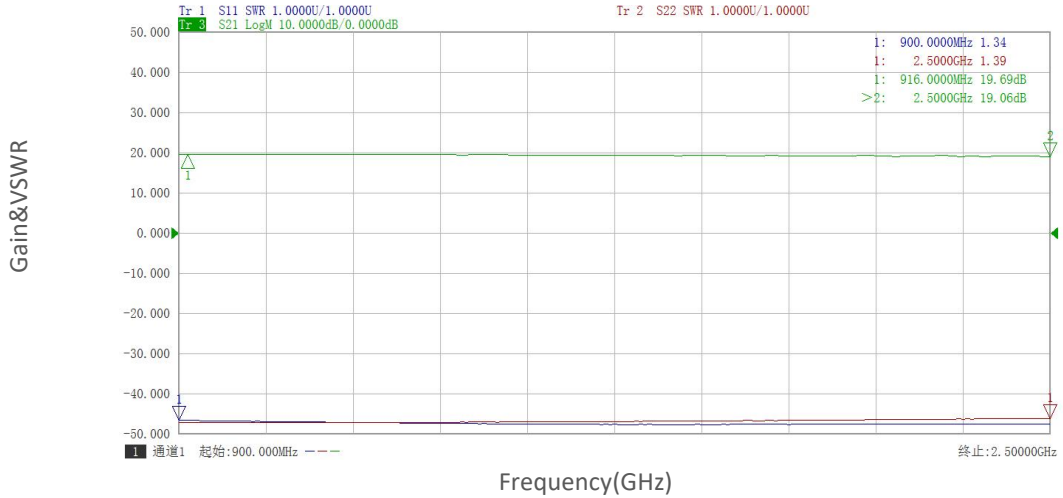
| 参数 Parameter | Min | Typ | Max | 单位 Units |
|------------------------------------|---|-----|------|----------|
| 操作温度 Operating Temperature | -40 | | +85 | °C |
| 存储温度 Non-operating Temperature | -55 | | +125 | °C |
| 相对湿度 Relative humidity | | 95 | | % |
| 海拔 Altitude | 50,000 | | | feet |
| 震动 Shock / 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:

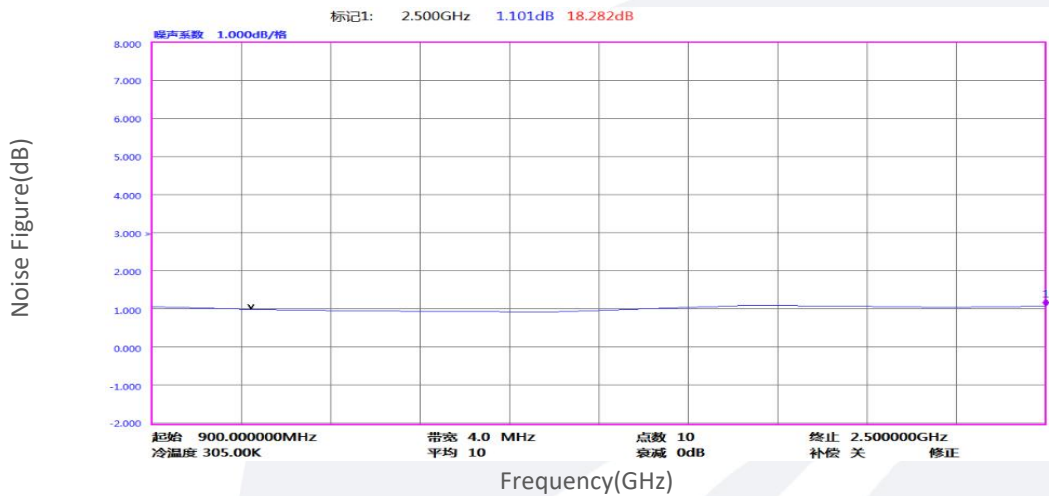
| 标准型号 Part Number | 描述 Description | 版本号 Revision |
|-----------------------|---|--------------|
| TLLA0.9G2.5G-15-15 | Low Noise Amplifier, 0.9-2.5GHz, Noise Figure:1.5dB, Gain:15 dB,P1dB:15dBm,+12V DC,Without Heatsink | Rev.1.1 |
| TLLA0.9G2.5G-15-15-HS | Low Noise Amplifier, 0.9-2.5GHz, Noise Figure:1.5dB, Gain:15 dB,P1dB:15dBm,+12V DC,With Heatsink | Rev.1.1 |

典型曲线 Typical Performance Data:

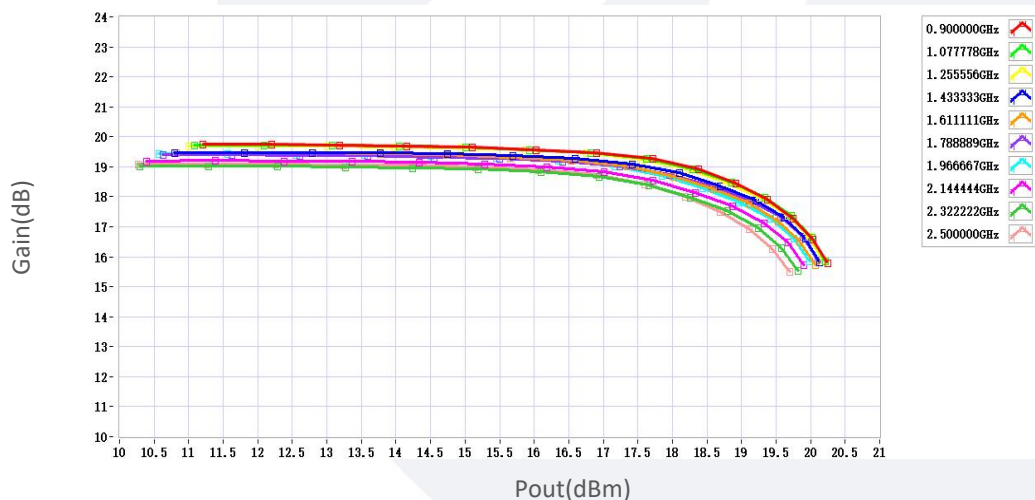
Gain&VSWR vs Frequency



Noise Figure vs Frequency

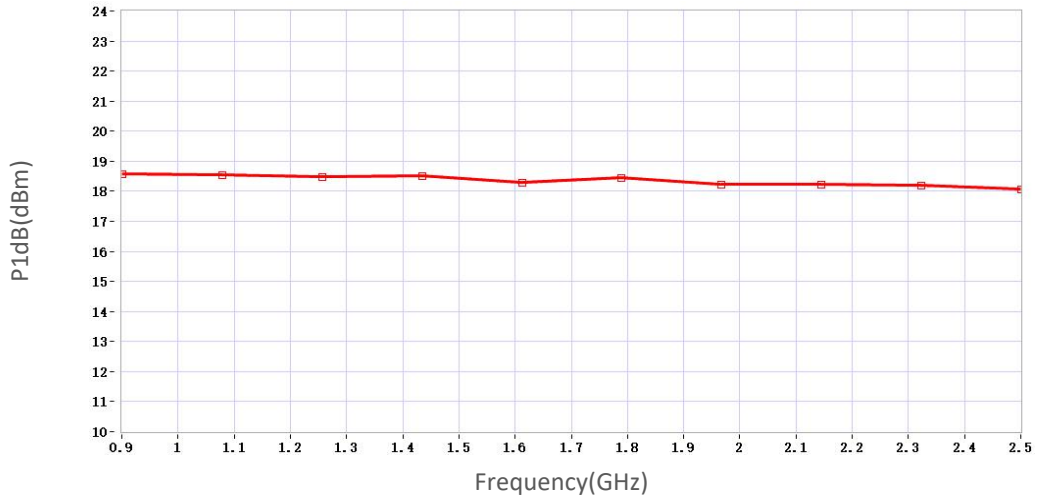


Gain vs Output Power



典型曲线 Typical Performance Data:

P1dB vs Frequency



P3dB vs Frequency

