



Low Noise Amplifier

1-9GHz/1.1dB NF/27dB Gain/13dBm P1dB

TLLA1G9G-26-10-LC

TURLA1G9G-2610LC is a low noise amplifier with small signal gain of 27dB and noise figure of 1.1 dB across the frequency range of 1 to 9 GHz. The DC power requirement for the amplifier is +5V DC/70mA. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range:1-9GHz
- Gain: 27dB Typ
- Noise Figure: 1.1dB 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	1		9	GHz
小信号增益 Small Signal Gain		27		dB
增益平坦度 Gain Flatness		±1		dB
噪声系数 Noise Figure		1.1		dB
输出1dB压缩点 Output P1dB		13		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		5		V DC
直流电流 DC Supply Current		70		mA
阻抗 Impedance	50			Ohms

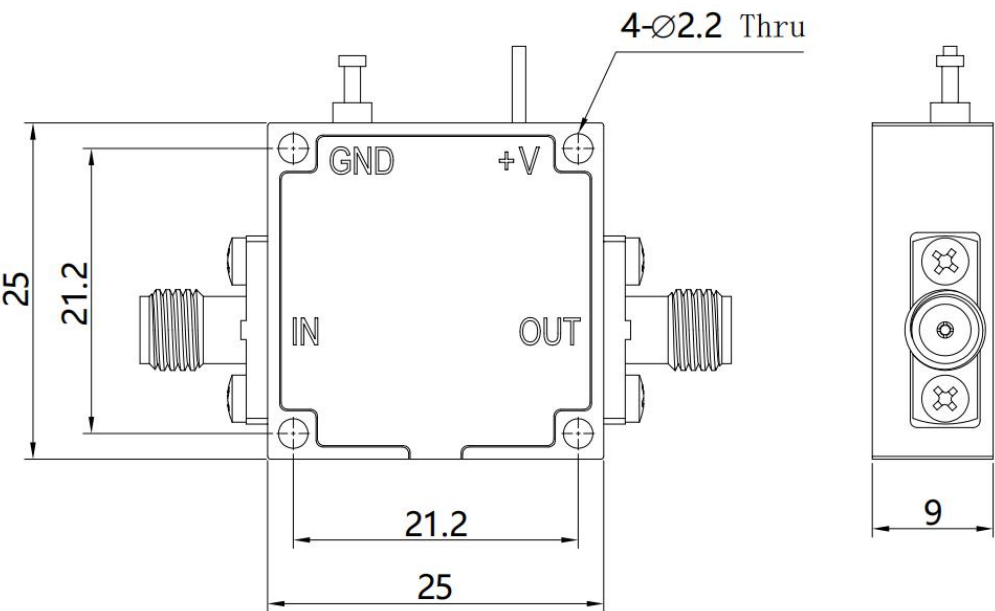
机械特性 Mechanical Specifications:

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	+8 V
输入功率 RF Input Power	+18 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.

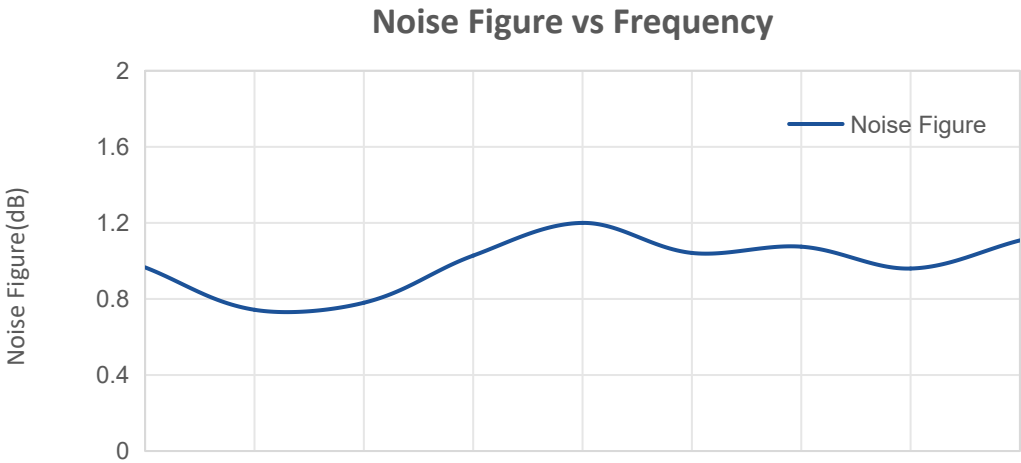
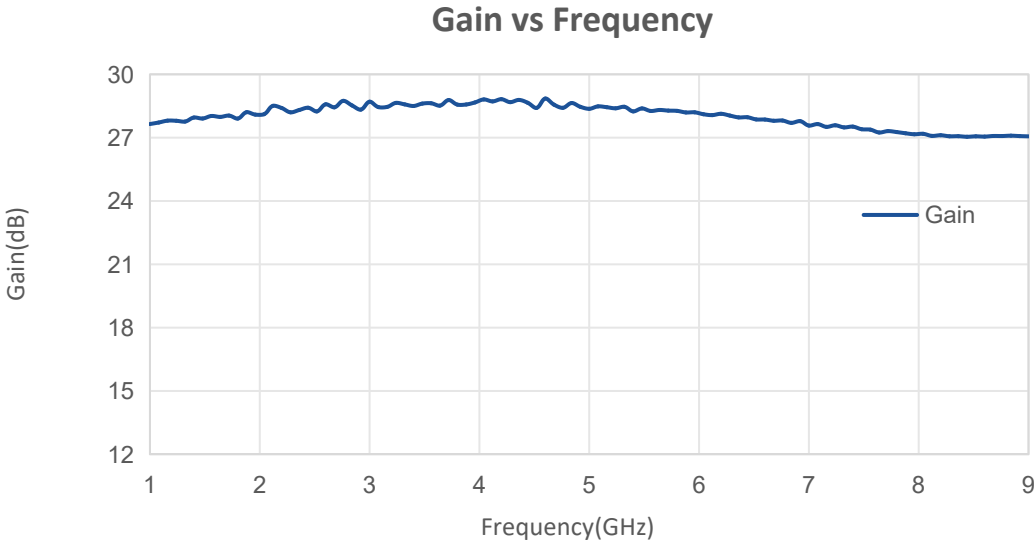
温度环境 Environmental Conditions:

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		10,000		feet

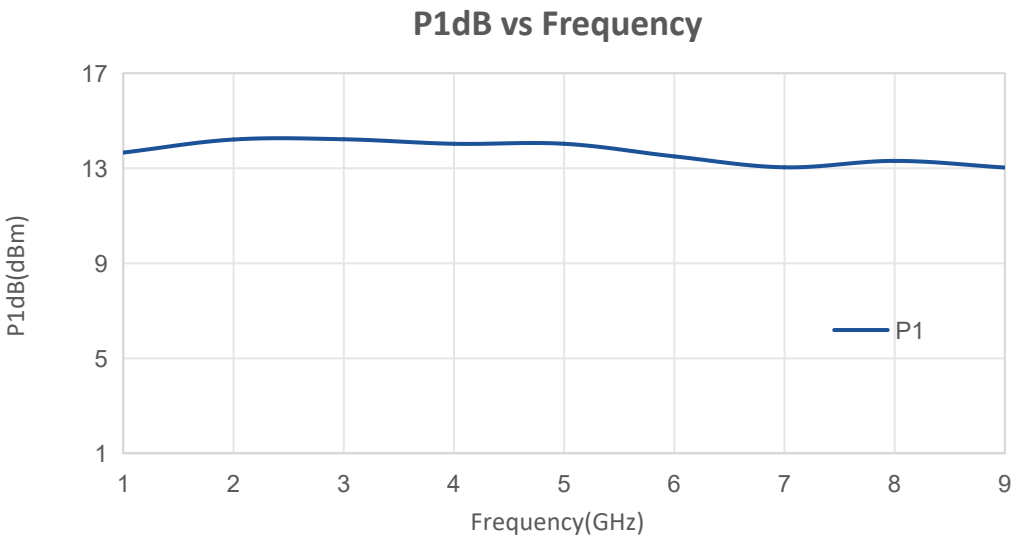
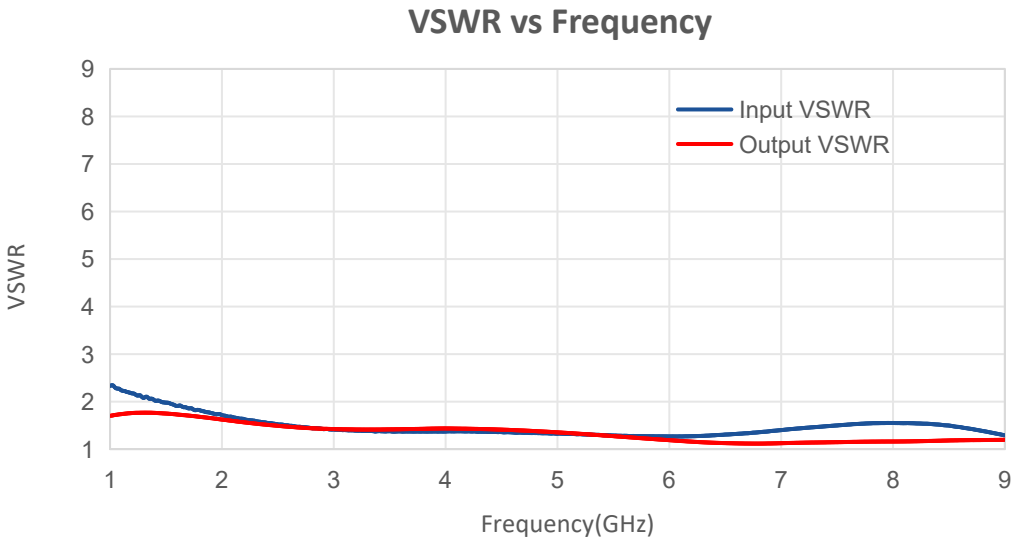
订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TURLA1G9G-2610LC	Low Noise Amplifier, 1-9GHz, Noise Figure:1.1dB, Gain:27dB,P1dB:13dBm,+5V DC,Without Heatsink	Rev.1.0

典型曲线 Typical Performance Data:



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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.