泰莱微波
Talent Microwave

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Low Noise Amplifier

WR-2.8/260-350GHz/12.0dB NF/25dB Gain Model: TMLA-260350-2511-02

TMLA-260350-2511-02 is a low noise amplifier with a typical small signal gain of 25 dB and a nominal noise figure of 12.0 dB across the frequency range of 260 to 350 GHz. The DC power requirement for the amplifier is +5 VDC/100 mA. The input and output port configuration offers an inline structure with WR-2.8 waveguides and UG-387/U-M anti-cocking flanges.

Features:

- Frequency range:260-350GHz
- Gain: 25dB Typ
- Noise Figure: 12.0dB Typ
- Unconditional stability

Applications:

- Passive Imaging
- 5G Systems

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	260		350	GHz
小信号增益 Small Signal Gain		25		dB
噪声系数 Noise Figure		12.0		dB
直流电压 DC Voltage		5		V DC
直流电流 DC Supply Current		100		mA

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入接口 Input Connector	WR-2.8/ UG-387/U	
输出接口 Output Connector	WR-2.8/ UG-387/U	
供电引脚 Power Supply Pin	Solder Pin	

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绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+6 V
输入功率 RF Input Power	TBD
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

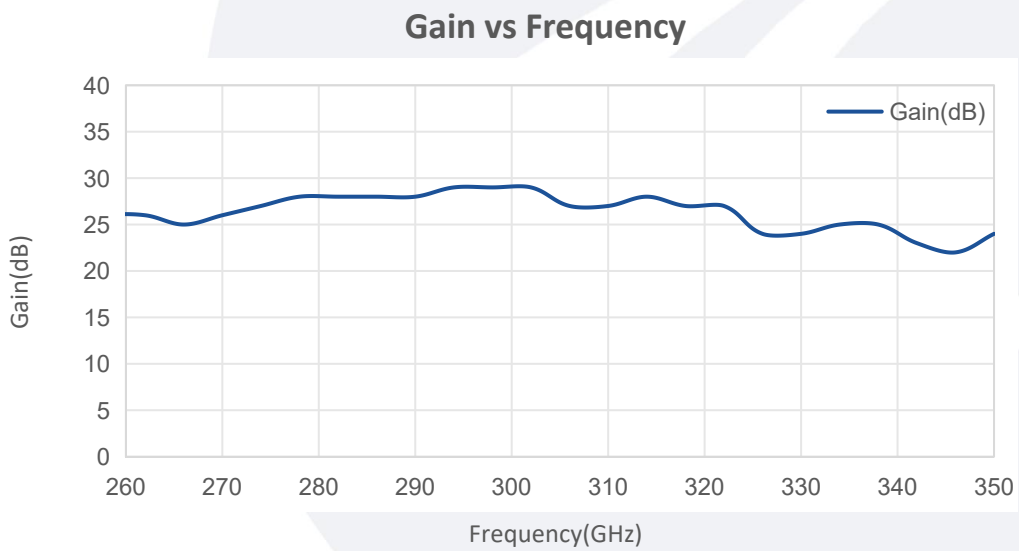
温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-10		+65	℃
存储温度 Non-operating Temperature	-45		+85	℃
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			
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
TMLA-260350-2511-02	Low Noise Amplifier,260-350GHz, Noise Figure:12.0dB, Gain:25dB,+5V DC,WR-2.8	Rev.1.0

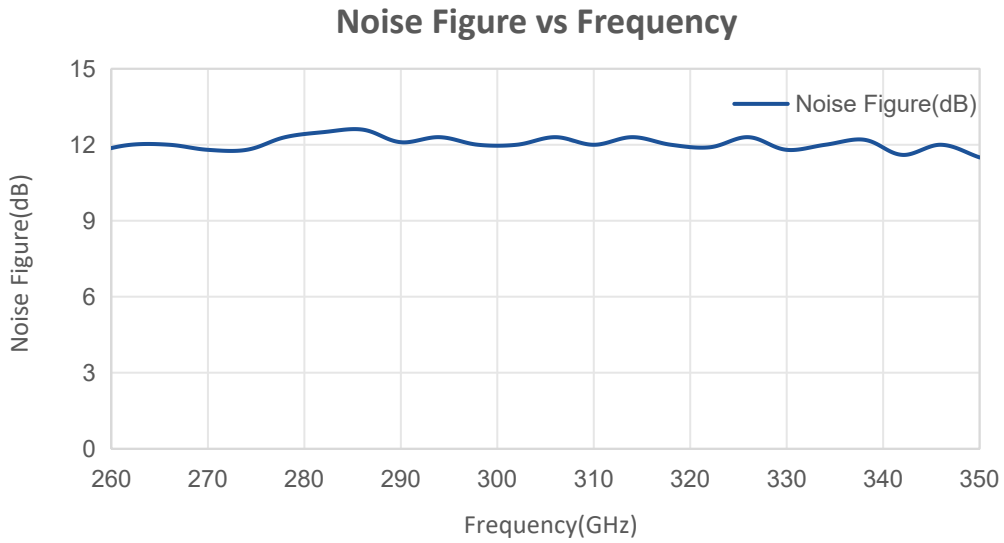
典型曲线 Typical Performance Data:

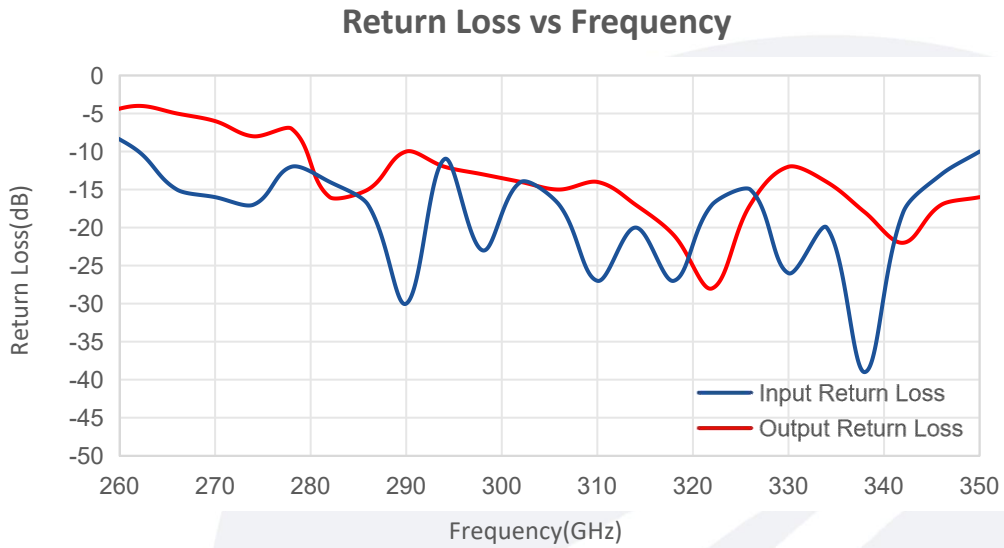


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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