泰莱微波 Talent Microwave

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Low Noise Amplifier

WR-6.5/110-170GHz/4.8dB NF/33dB Gain Model: TMLA-110170-3560-06

TMLA-110170-3560-06 is a D-Band low noise amplifier with a typical small signal gain of 33 dB and a nominal noise figure of 4.8 dB across the frequency range of 110 to 170 GHz. The DC power requirement for the amplifier is +7 VDC/53 mA. The input and output port configuration offers an inline structure with WR-6.5 waveguides and UG-387/U-M anti-cocking flanges.

Features:

- Frequency range:110-170GHz
- Gain: 33dB Typ
- Noise Figure: 4.8dB 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	110		170	GHz
小信号增益 Small Signal Gain		33		dB
噪声系数 Noise Figure		4.8		dB
输出功率1dB压缩点 Output P1dB		0		dBm
输入驻波 Input VSWR		2.5		:1
输出驻波 Output VSWR		2		:1
直流电压 DC Voltage		7		V DC
直流电流 DC Supply Current		53		mA

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入接口 Input Connector	WR-6.5/ UG-387/U	
输出接口 Output Connector	WR-6.5/ UG-387/U	
供电引脚 Power Supply Pin	Solder Pin	
尺寸 Size	50*30*22	mm

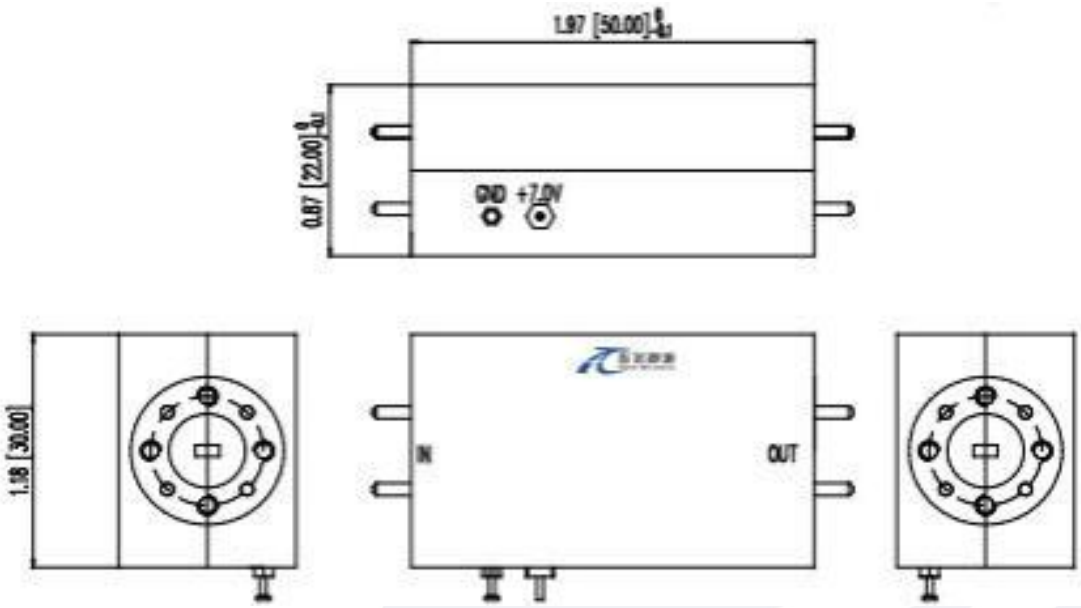
Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

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	TBD
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

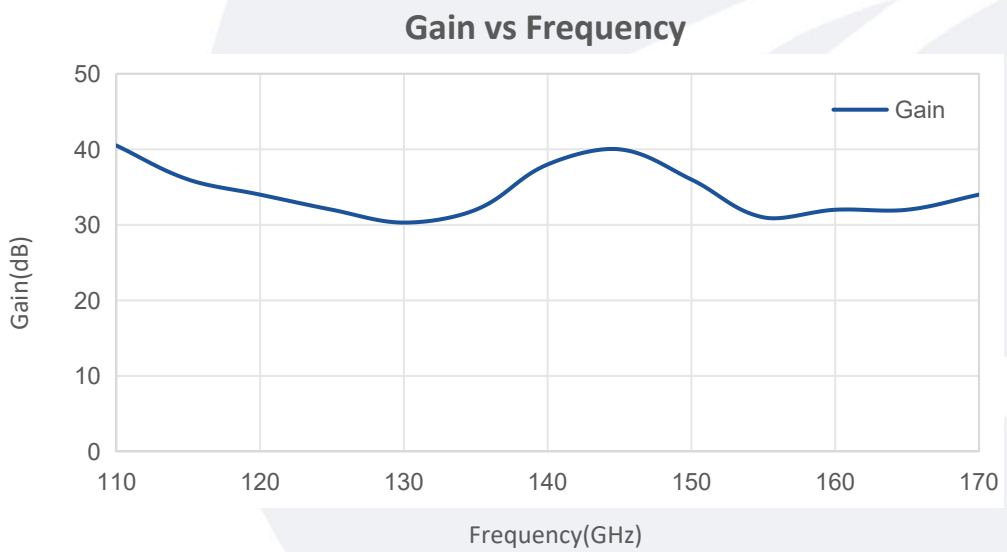
温度环境 Environmental Conditions:

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-110170-3560-06	Low Noise Amplifier,110-170GHz, Noise Figure:4.8dB, Gain:33dB,+7V DC,WR-6.5	Rev.1.0

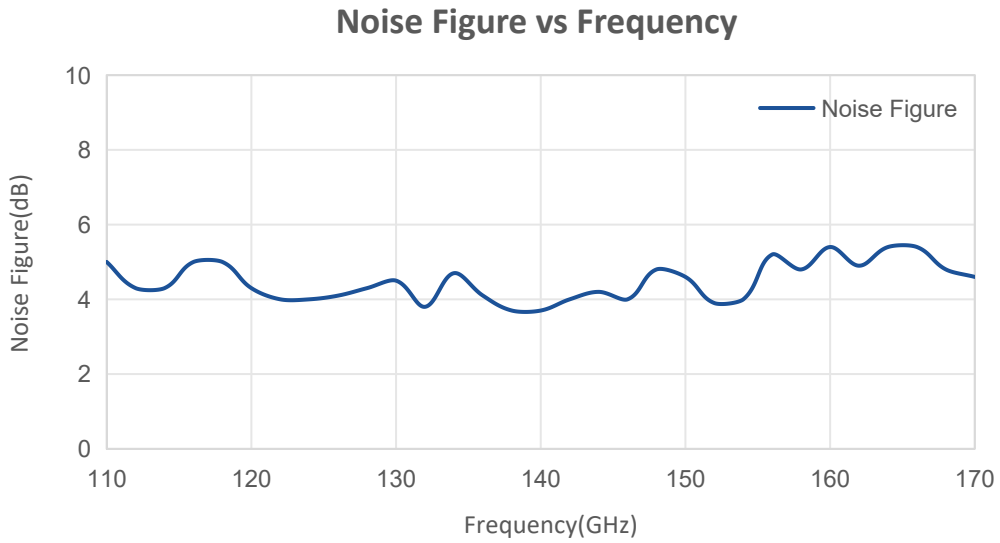
典型曲线 Typical Performance Data:

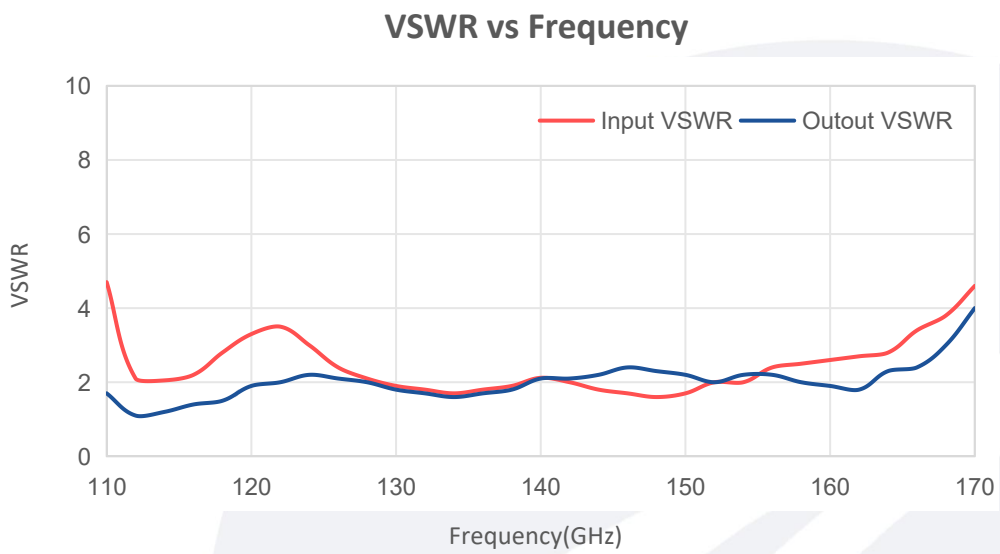


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

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.