

Model: TMLA-140220-2070-05

Low Noise Amplifier

140-220GHz, NF:7.0 dB, Gain:20dB

Feature:

- Ultra Wide Band:140-220 GHz
- Gain: 20dB Typ
- Noise Figure:7.0dB Typ
- Unconditional stability

电气特性 Electrical Specifications:

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	140		220	GHz
增益 Gain		20		dB
噪声系数 Noise Figure		7		dB
直流电压 DC Voltage		+5		V DC
直流电流 DC Supply Current		30		mA

机械特性 Mechanical Specifications:

参数Parameter	指标 Value	单位Units
输入接口 Input Connector	WR-5.1/ UG-387/U	
输出接口 Output Connector	WR-5.1/ UG-387/U	
供电引脚 Power Supply Pin	Solder Pin	
尺寸 Size	43.5*19*19	mm

绝对最大值 Absolute Maximum Ratings:

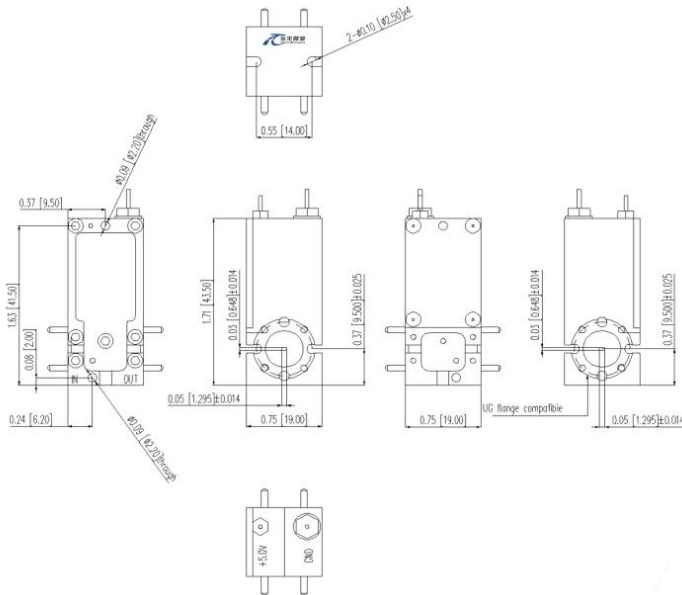
参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+5 V
输入功率 RF Input Power	TBD
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

外形尺寸 Outline Drawing:

Unit: Inches(mm)



温度环境 Environmental Conditions:



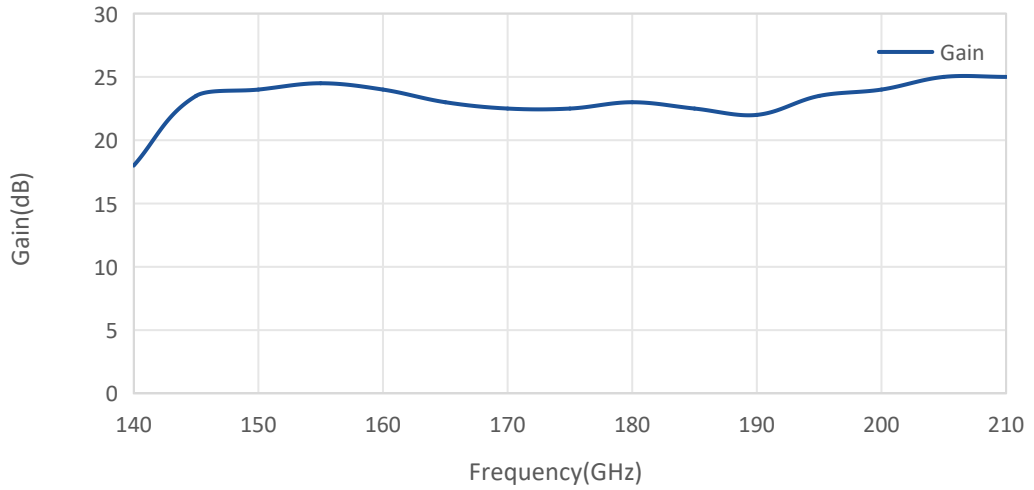
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-10		+65	°C
存储温度 Non-operating Temperature	-45		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

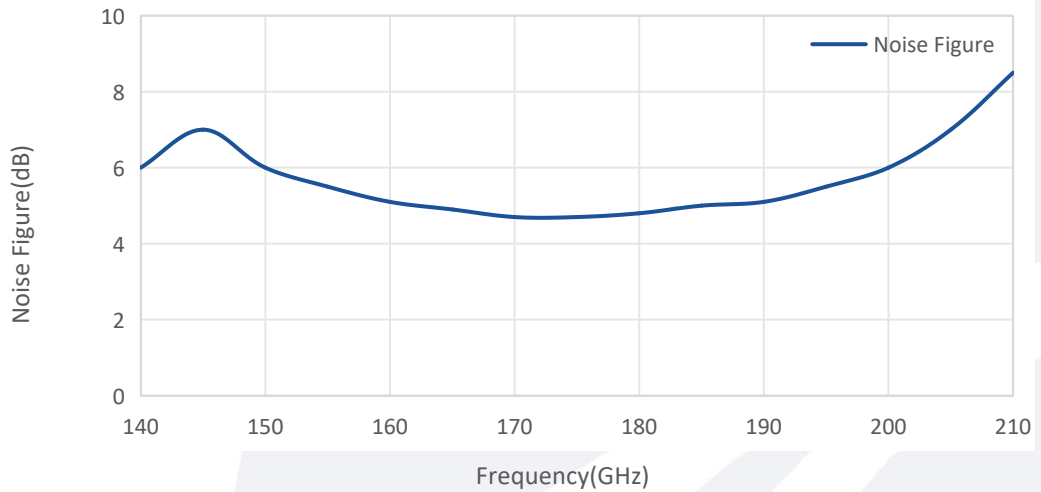
标准型号 Part Number	描述 Description	版本号Revision
TMLA-140220-2070-05	Low Noise Amplifier,140-220GHz, Noise Figure:7.0dB, Gain:20dB,+5V DC,WR-5.1	Rev.1.1

典型曲线 Typical Performance Data:

Gain vs Frequency



Noise Figure vs Frequency



Return Loss vs Frequency

