

Model: TMLA-140220-1860-05
Low Noise Amplifier
140-220GHz, NF:6.0 dB, Gain:18 dB
Feature:

- Ultra Wide Band: 140-220 GHz
- Gain: 18dB Typ
- Noise Figure: 6.0dB 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		18		dB
噪声系数 Noise Figure		6		dB
输出功率1dB压缩点 Output P1dB		0		dBm
输入驻波 Input VSWR		3.5		:1
输出驻波 Output VSWR		3.5		:1
直流电压 DC Voltage		12		V DC
直流供电 DC power supply		50		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	30*30*23	mm

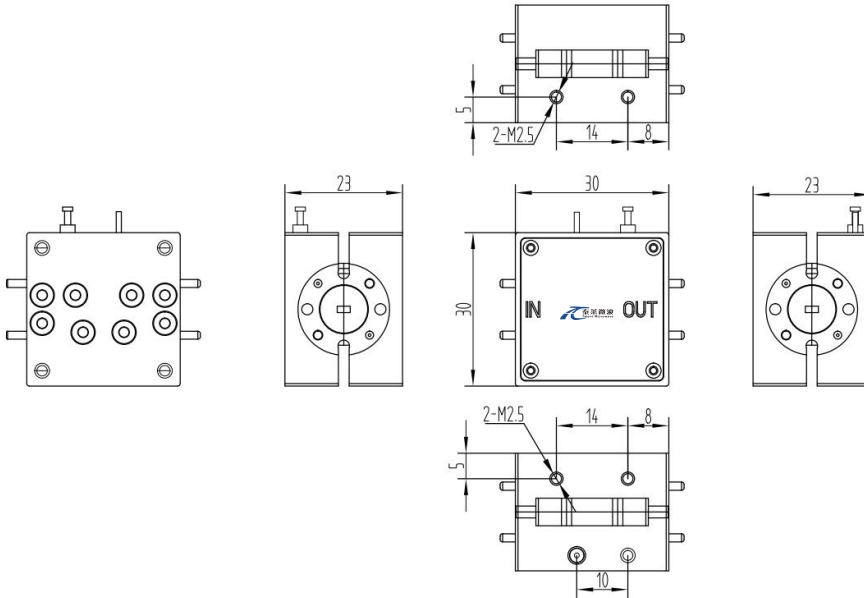
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15 V
输入功率 RF Input Power	-5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V


Available 220V System
Benchtop Amplifier

外形尺寸 Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

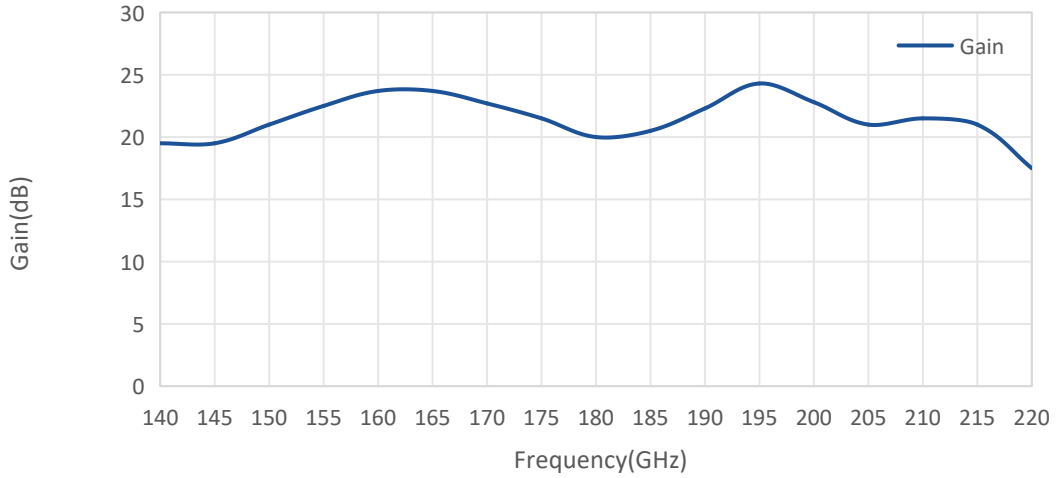
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-55		+85	°C
存储温度 Non-operating Temperature	-45		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

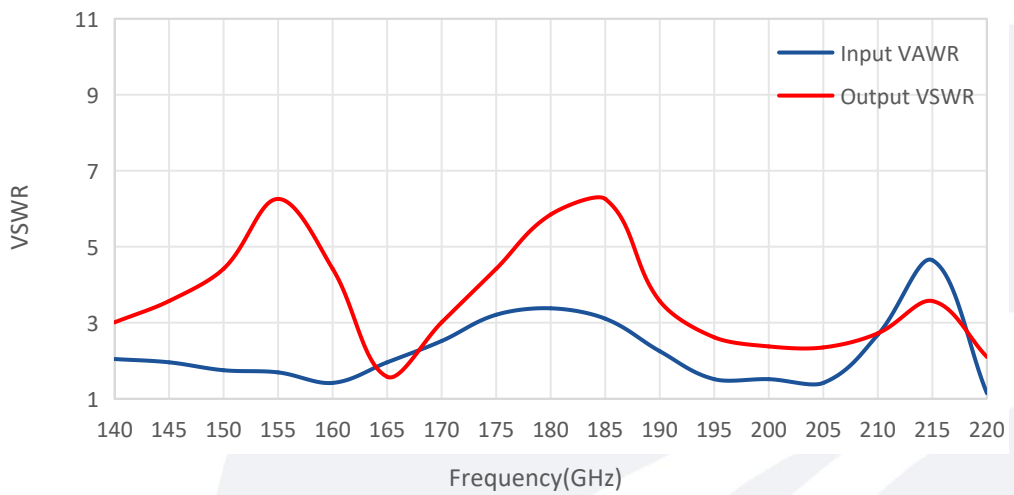
标准型号 Part Number	描述 Description	版本号 Revision
TMLA-140220-1860-05	Low Noise Amplifier, 140-220GHz, Noise Figure:6.0dB, Gain:18dB,+12V DC,WR-05	Rev.1.1

典型曲线 Typical Performance Data:

Gain vs Frequency



VSWR vs Frequency



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.