

Model: TMLA-040060-4550-19-N
**Low Noise Amplifier
 40-60GHz, NF:4.0 dB, Gain:44 dB**
Feature:

- Ultra Wide Band: 40-60 GHz
- Gain: 44dB Typ
- Noise Figure: 4.0dB Typ
- Unconditional stability

电气特性 Electrical Specifications:

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	40		60	GHz
增益 Gain	40	44		dB
噪声系数 Noise Figure		4.0		dB
输出功率1dB压缩点 Output P1dB		18		dBm
输入驻波 Input VSWR		2		:1
输出驻波 Output VSWR		1.5		:1
直流电压 DC Voltage		+12		V DC
直流供电 DC power supply		250		mA

机械特性 Mechanical Specifications:

参数Parameter	指标 Value	单位Units
输入接口 Input Connector	WR-19/ UG-383/U	
输出接口 Output Connector	WR-19/ UG-383/U	
供电引脚 Power Supply Pin	Solder Pin	
尺寸 Size	15*30*30	mm

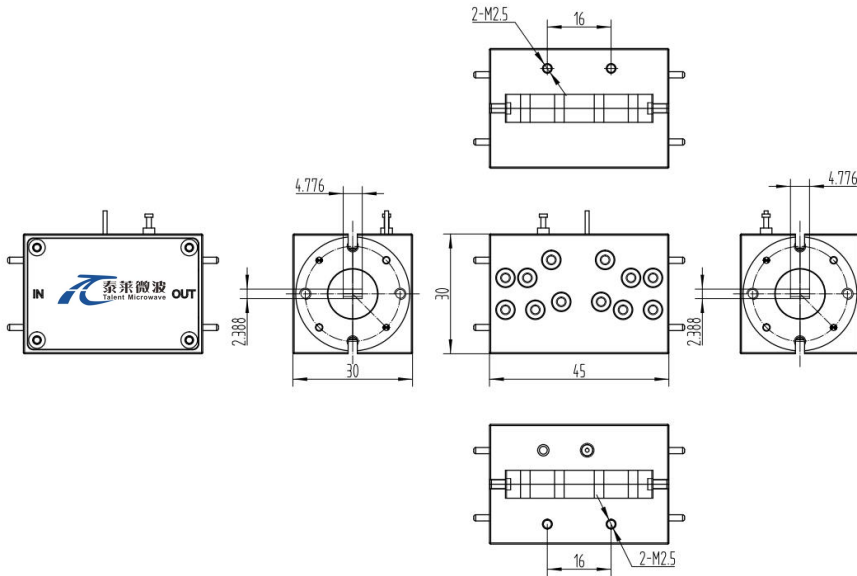
绝对最大值 Absolute Maximum Ratings:

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



外形尺寸 Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

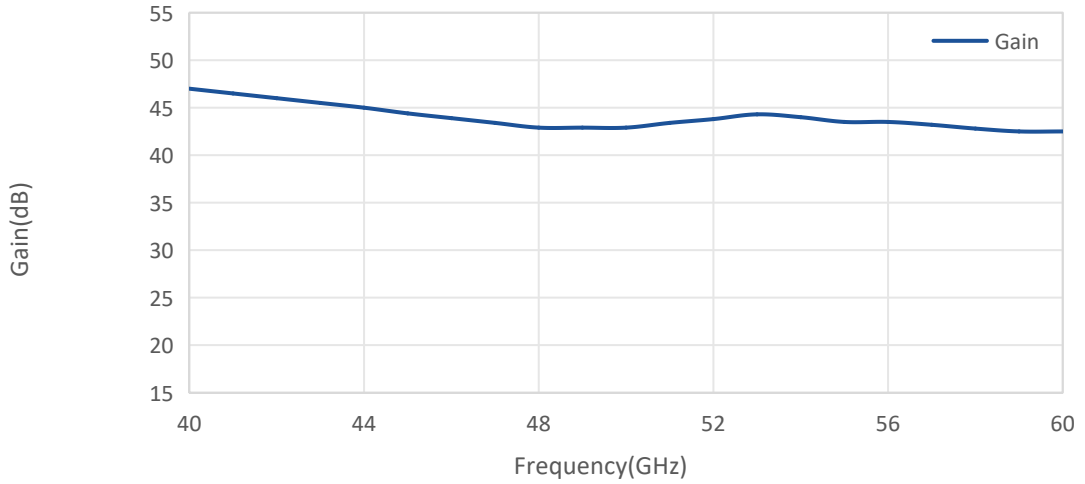
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-40		+75	°C
存储温度 Non-operating Temperature	-55		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

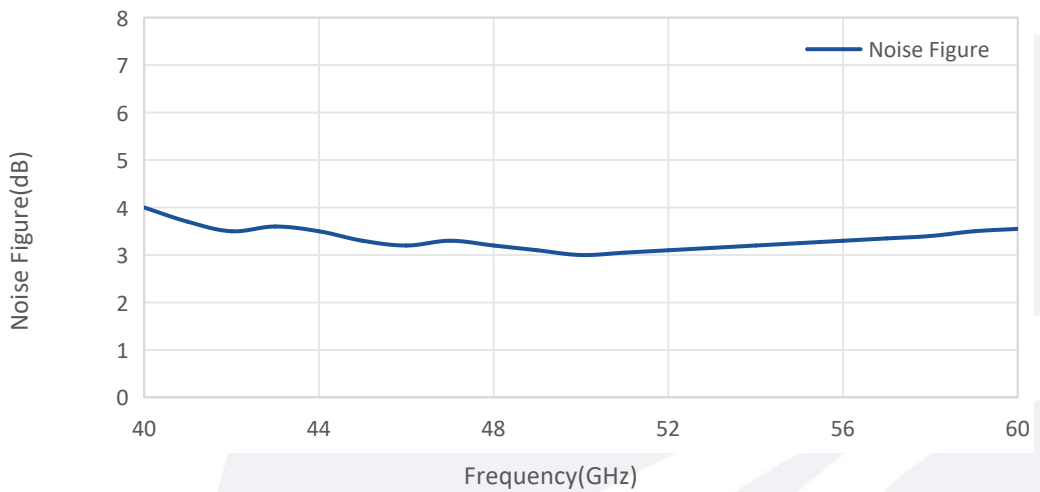
标准型号 Part Number	描述 Description	版本号Revision
TMLA-040060-4550-19-N	Low Noise Amplifier,40-60GHz, Noise Figure:4.0dB, Gain:44dB,+12V DC,WR-19	Rev.1.1

典型曲线 Typical Performance Data:

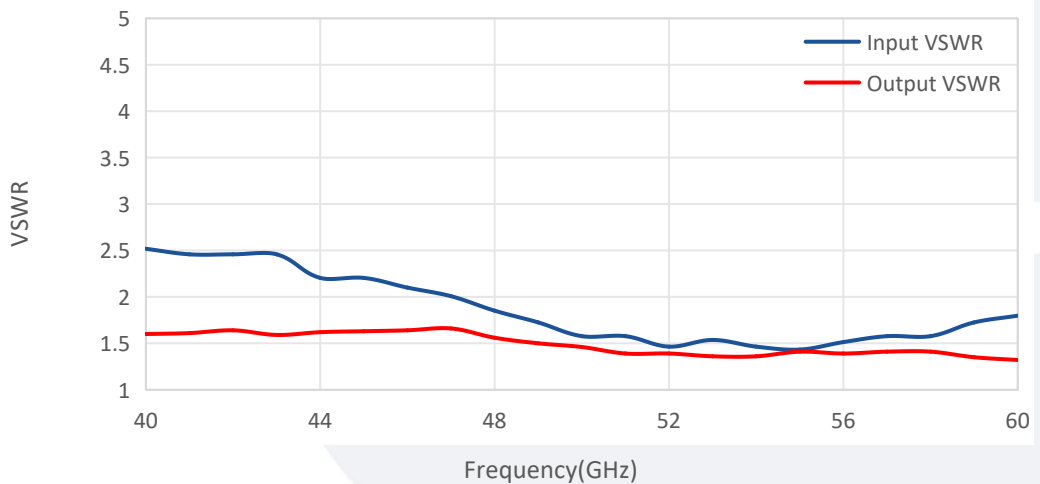
Gain vs Frequency



Noise Figure 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.