

Model: TMLA-060090-3050-12-N
**Terahertz Low Noise Amplifier
 60-90GHz, NF:5.0 dB, Gain:30 dB**
Feature:

- Ultra Wide Band: 60-90 GHz
- Gain: 30dB Typ
- Noise Figure:5.0dB Typ
- Unconditional stability

电气特性 Electrical Specifications:

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	60		90	GHz
增益 Gain		30		dB
噪声系数 Noise Figure		5		dB
输出功率1dB压缩点 Output P1dB		15		dBm
直流电压 DC Voltage		+5		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-12/ UG-387/U	
输出接口 Output Connector	WR-12/ UG-387/U	
供电引脚 Power Supply Pin	Solder Pin	
尺寸 Size	45*30*22	mm

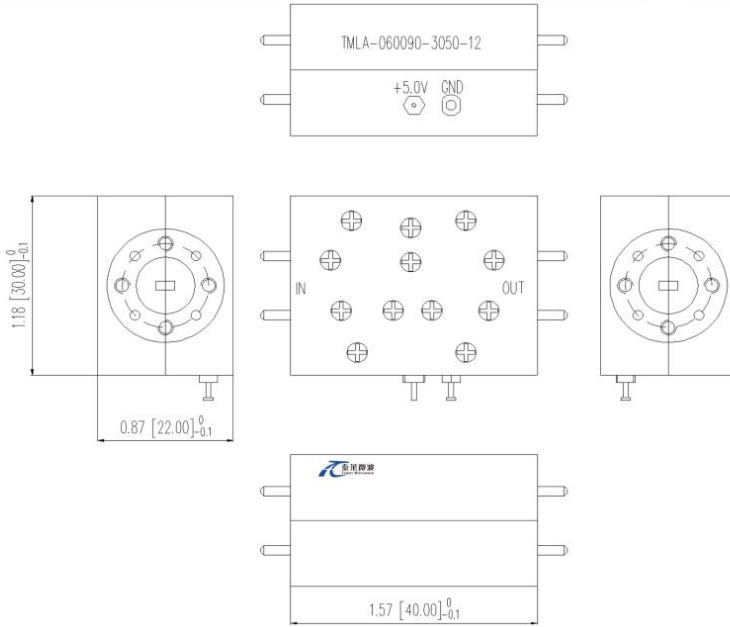
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+5 V
输入功率 RF Input Power	10dBm
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)



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

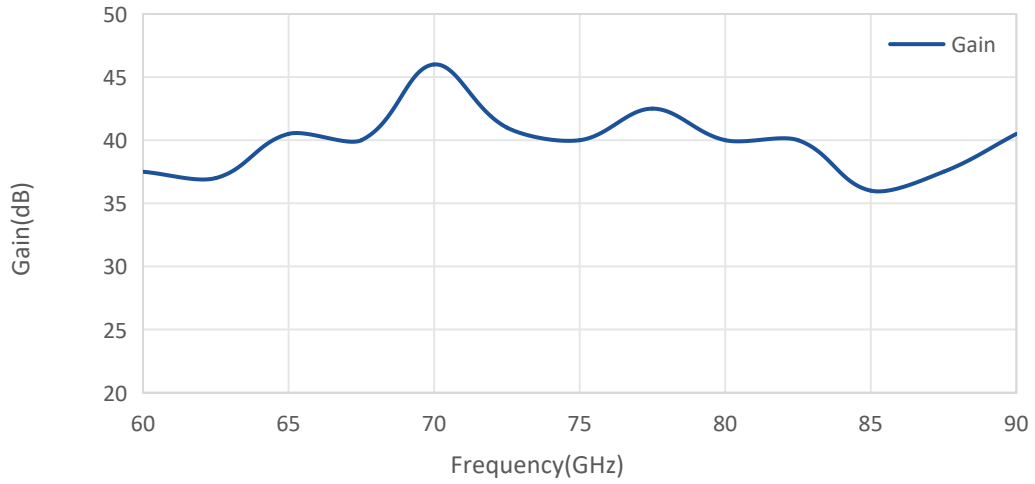
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	0		+60	°C
存储温度 Non-operating Temperature	-45		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

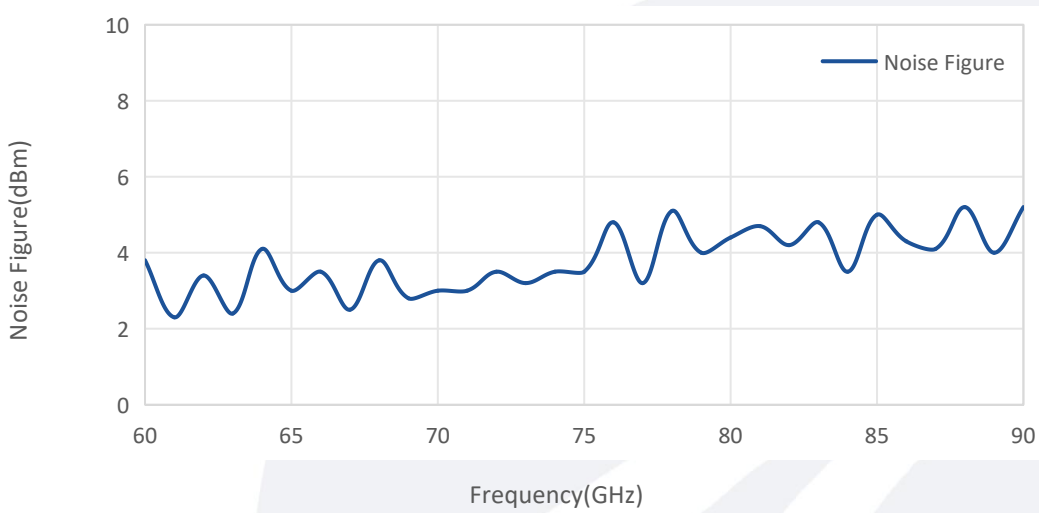
标准型号 Part Number	描述 Description	版本号Revision
TMLA-060090-3050-12-N	Low Noise Amplifier,60-90GHz, Noise Figure:5.0dB, Gain:30dB,+5V DC,WR-12	Rev.1.1

典型曲线 Typical Performance Data:

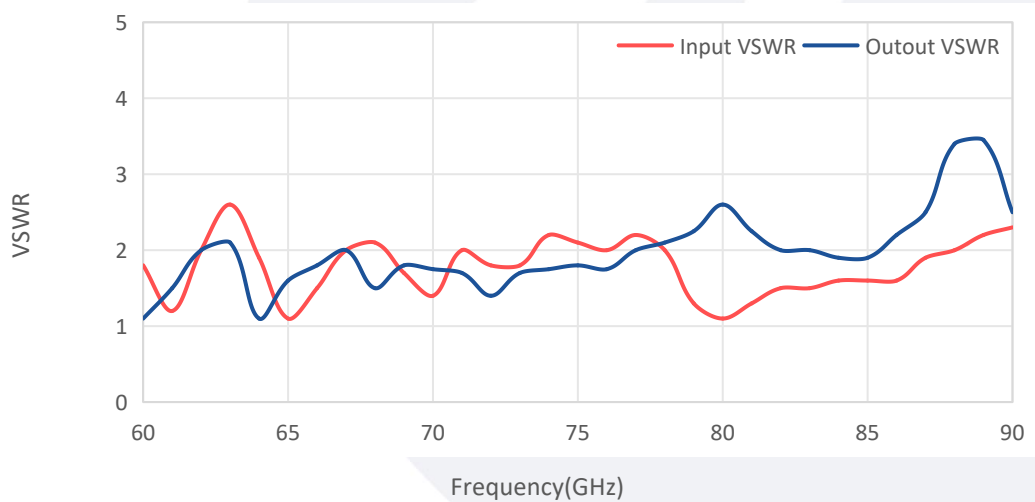
Gain vs Frequency



Noise Figure vs Frequency

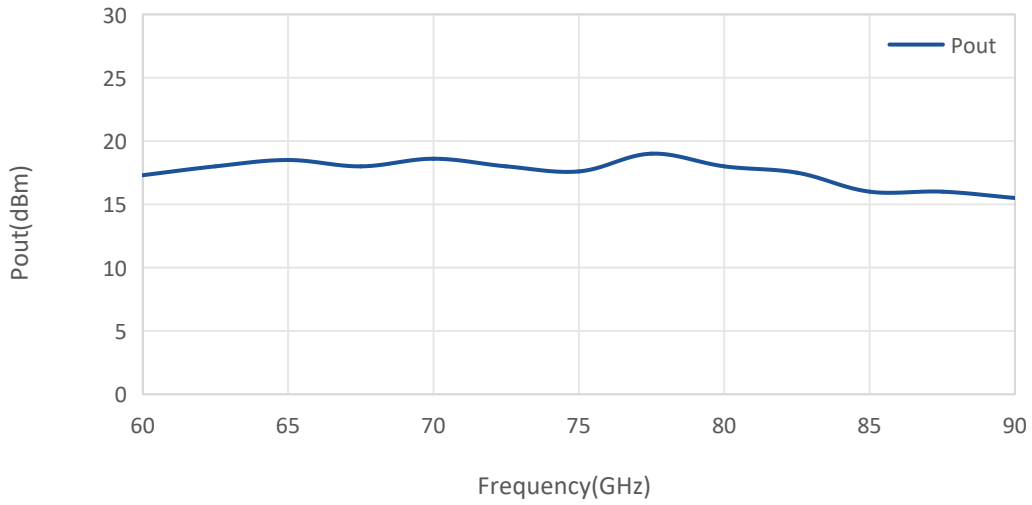


VSWR vs Frequency



典型曲线 Typical Performance Data:

Pout vs Frequency@Pin=-22dBm



I vs Frequency@Pin=-22dBm

