

Model: TMLA-076077-3245-12
**Low Noise Amplifier
 76-77GHz, NF:4.5 dB, Gain:32 dB**
Feature:

- Ultra Wide Band: 76-77 GHz
- Gain:32dB Typ
- Noise Figure:4.5dB Typ
- Unconditional stability

电气特性 Electrical Specifications:

参数Parameter		Min	Typ	Max	单位Units
频率范围 Frequency range		76		77	GHz
增益 Gain	@76.5G--77GHz	31	32	33	dB
	@76-77GHz	30	32	34	
噪声系数 Noise Figure		3.5	4.5	5	dB
输出功率1dB压缩点 Output P1dB		10	11		dBm
直流电压 DC Voltage			+5		V
直流供电 DC power supply			200		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	48*42*24	mm

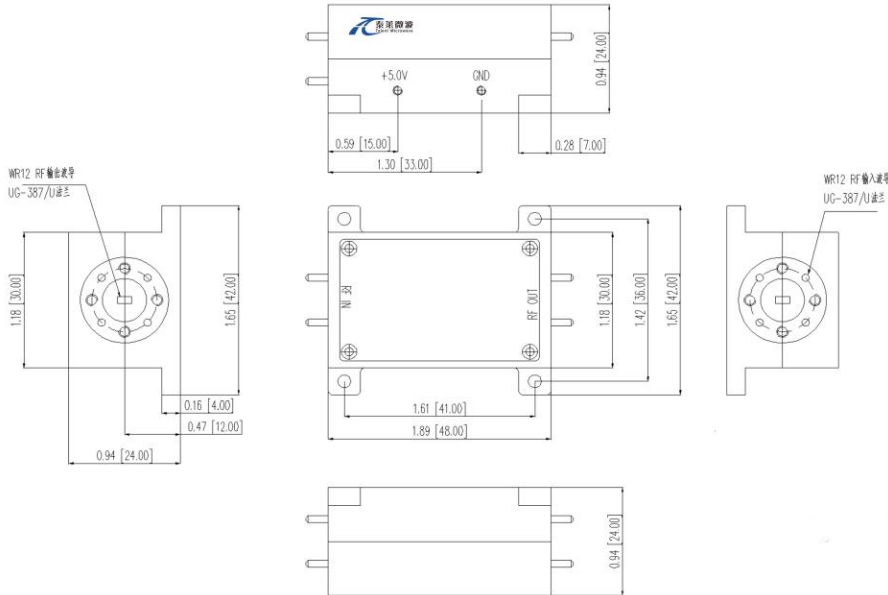
绝对最大值 Absolute Maximum Ratings:

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:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

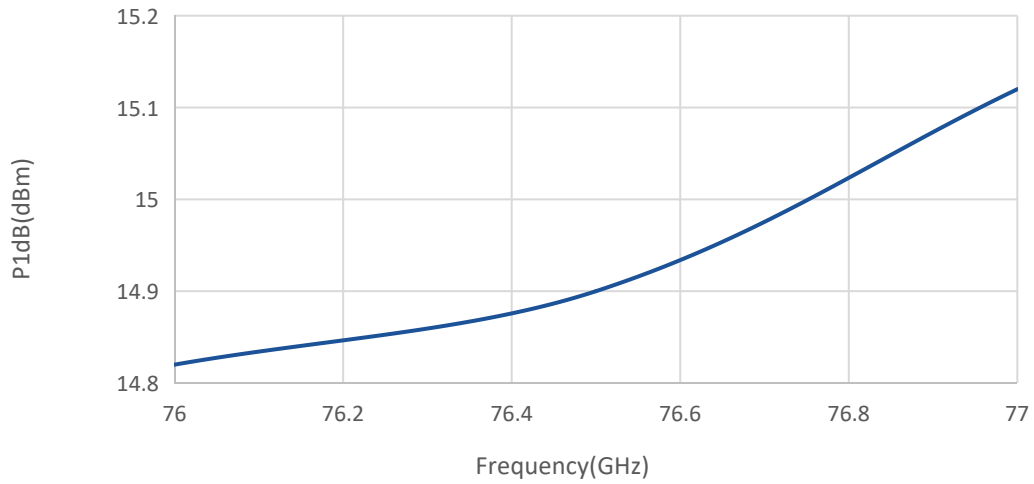
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-25		+65	°C
存储温度 Non-operating Temperature	-45		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half 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-076077-3245-12	Low Noise Amplifier,76-77GHz, Noise Figure:4.5dB, Gain:32dB,+5V DC,WR-12	Rev.1.1

典型曲线 Typical Performance Data:

P1dB vs Frequency



Noise Figure vs Frequency

