

Model: TMLA-050075-3845-15
V-band Low Noise Amplifier
50-75 GHz, NF:4.5 dB, Gain:38 dB
Feature:

- Ultra Wide Band: 50-75 GHz
- Gain: 38dB Typ
- Noise Figure: 4.5dB Typ
- Unconditional stability

电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	50		75	GHz
增益 Gain	35	38		dB
噪声系数 Noise Figure		4.5		dB
输出功率1dB压缩点 Output P1dB		15		dBm
输入驻波 Input VSWR		2.5		: 1
输出驻波 Output VSWR		2.5		: 1
直流电压 DC Voltage		+5		V DC
直流供电 DC power supply		250		mA

机械特性 Mechanical :

参数Parameter	指标 Value
输入接口 Input Connector	WR-15/UG-385/U
输出接口 Output Connecto	WR-15/UG-385/U
供电引脚 Power Supply Pin	Solder Pin
尺寸 Size	45mm×42mm×42mm

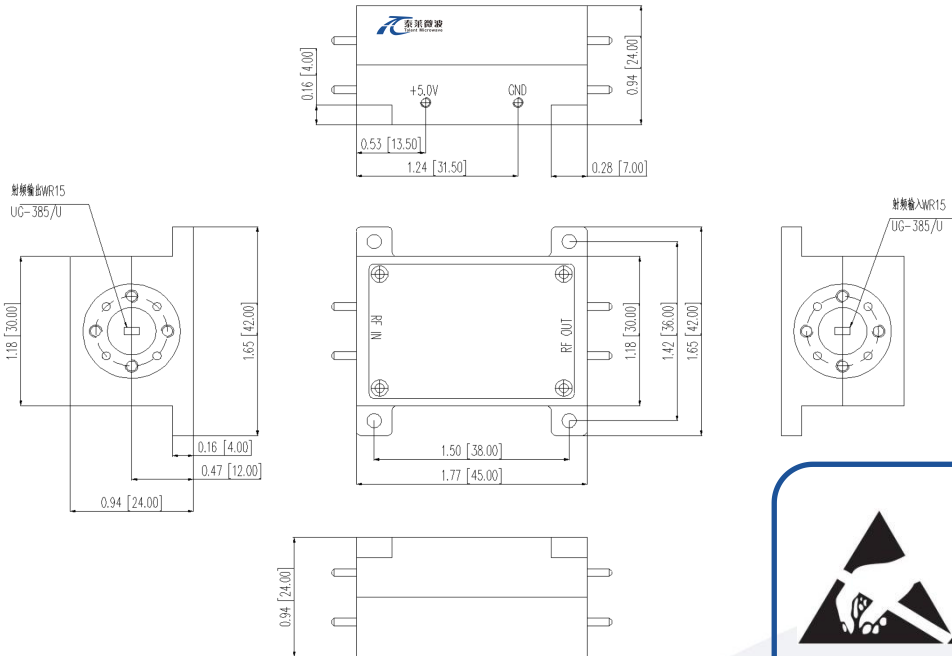

 Available 220V System
 Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

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

外形尺寸 Outline Drawing:

Unit: mm(Inches)



温度环境 Environmental Conditions:

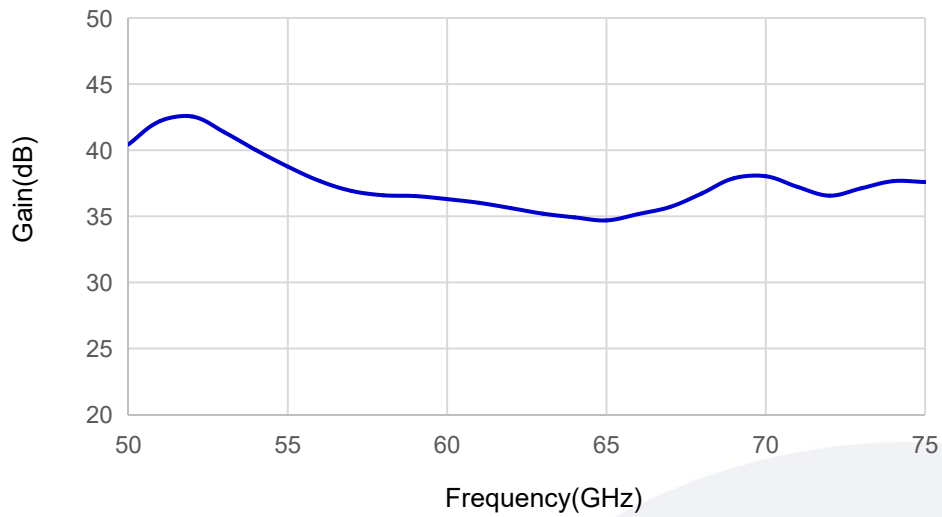
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	0		+65	°C
存储温度 Non-operating Temperature	-45		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half 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-050075-3845-15	V-band Low Noise Amplifier, 50-75 GHz, Noise Figure:4.5 dB, Gain:38 dB, P1dB:15dBm,5V DC WR-15	Rev.1.1

典型曲线 Typical Performance Data:

Gain vs Frequency



Noise Figure vs Frequency

