

Model: TMLA-220270-1580-03
**Low Noise Amplifier
 220-270GHz, NF:8.0 dB, Gain:15dB**
Feature:

- Ultra Wide Band: 220-270 GHz
- Gain: 15dB Typ
- Noise Figure:8.0dB Typ
- Unconditional stability

电气特性 Electrical Specifications:

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	220		270	GHz
增益 Gain		15		dB
噪声系数 Noise Figure		8.0		dB
输出功率1dB压缩点 Output P1dB		-5		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		+5		V DC
直流供电 DC power supply		43		mA

机械特性 Mechanical Specifications:

参数Parameter	指标 Value	单位Units
输入接口 Input Connector	WR-03/ UG-387/U	
输出接口 Output Connector	WR-03/ UG-387/U	
供电引脚 Power Supply Pin	Solder Pin	
尺寸 Size	35*30*30	mm

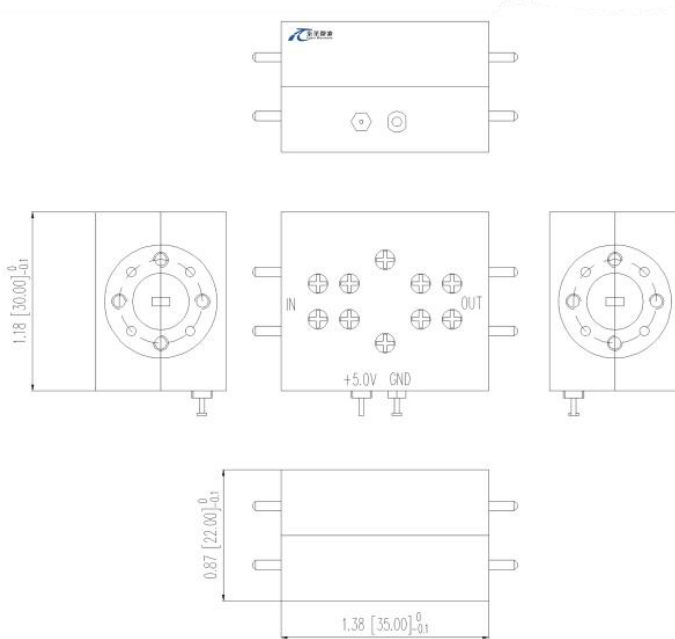
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+8 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)



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-220270-1580-03	Low Noise Amplifier,220-270GHz, Noise Figure:8.0dB, Gain:15dB,+5V DC,WR-03	Rev.1.1