泰莱微波 Talent Microwave

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Low Noise Amplifier

WR-15/50-70GHz/2.2dB NF/37dB Gain Model: TMLA-050070-3722-15

TMLA-050070-3722-15 is a V-Band low noise amplifier with a typical small signal gain of 37 dB and a nominal noise figure of 2.2 dB across the frequency range of 50 to 70 GHz. The DC power requirement for the amplifier is +5 VDC /58 mA. The input and output port configuration offers an inline structure with WR-15 waveguides and UG-385/U-M anti-cocking flanges.

Features:

- Frequency range:50-70GHz
- Gain: 37dB Typ
- Noise Figure: 2.2dB Typ
- Unconditional stability

Applications:

- Passive Imaging
- 5G Systems

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	50		70	GHz
小信号增益 Small Signal Gain	33	37		dB
噪声系数 Noise Figure		2.2	2.8	dB
输出功率1dB压缩点 Output P1dB		-5		dBm
输入驻波 Input VSWR		2		:1
输出驻波 Output VSWR		2		:1
直流电压 DC Voltage		5		V DC
直流电流 DC Supply Current		58		mA

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入接口 Input Connector	WR-15/ UG-385/U	
输出接口 Output Connector	WR-15/ UG-385/U	
供电引脚 Power Supply Pin	Solder Pin	
尺寸 Size	50*30*22	mm

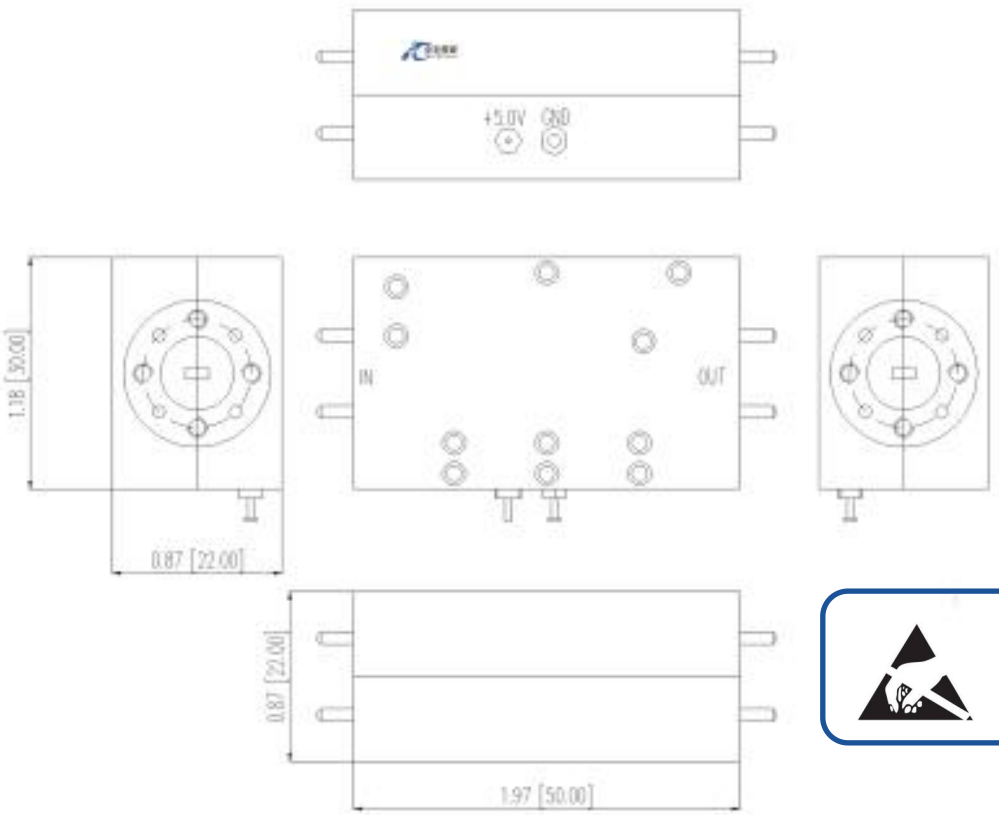
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绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+6 V
输入功率 RF Input Power	10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

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温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-40		+75	℃
存储温度 Non-operating Temperature	-55		+85	℃
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 Base Number	描述 Description	版本号 Revision
TMLA-050070-3722-15	Low Noise Amplifier,50-70GHz, Noise Figure:2.2dB, Gain:37dB, +5V DC,WR-15	Rev.1.1