泰莱微波 Talent Microwave

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Low Noise Amplifier

WR-12/60-90GHz/3.5dB NF/15dB Gain Model: TMLA-060090-1540-12

TMLA-060090-1540-12 is a E-Band low noise amplifier with a minimum small signal gain of 15 dB and a nominal noise figure of 3.5 dB across the frequency range of 60 to 90 GHz. The DC power requirement for the amplifier is +12 VDC /150 mA. The input and output port configuration offers an inline structure with WR-12 waveguides and UG-387/U-M anti-cocking flanges.

Features:

- Frequency range:60-90GHz
- Gain: 15dB Min
- Noise Figure: 3.5dB 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	60		90	GHz
小信号增益 Small Signal Gain	15			dB
噪声系数 Noise Figure		3.5		dB
输出功率1dB压缩点 Output P1dB	8			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		12		V DC
直流电流 DC Supply Current		150		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	30*30*23	mm

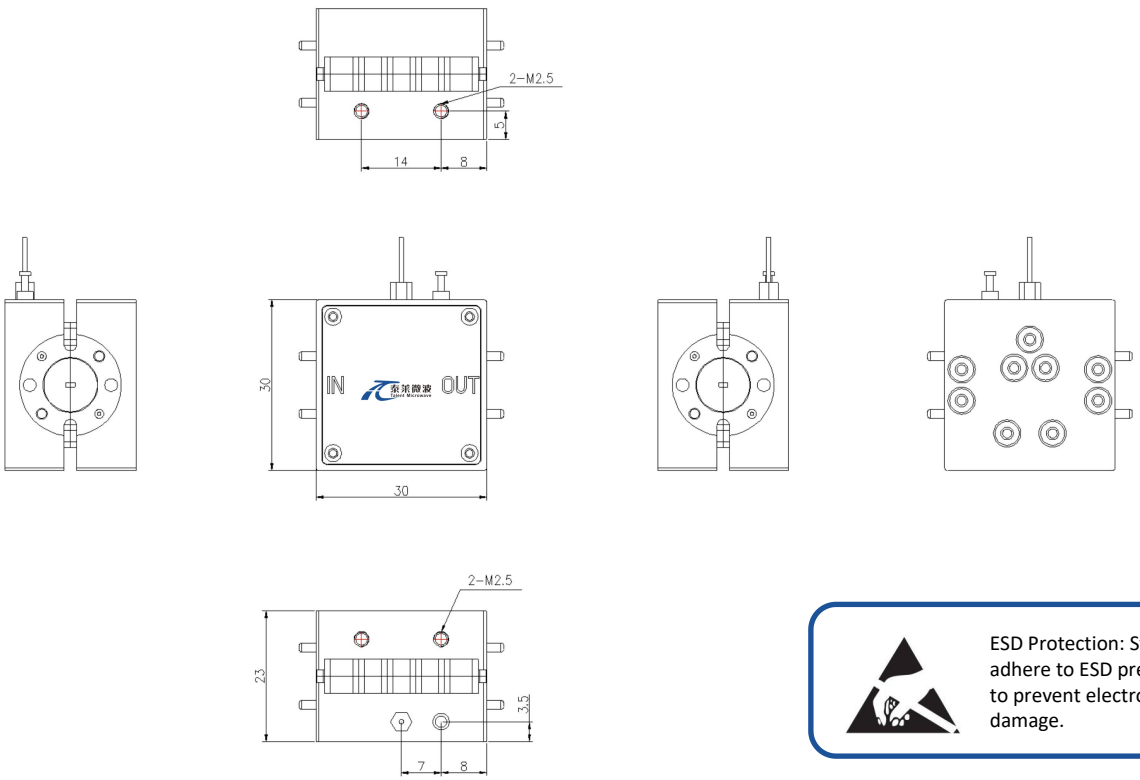
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绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15 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-060090-1540-12	Low Noise Amplifier,60-90GHz, Noise Figure:3.5dB, Gain:15dB, +12V DC,WR-12	Rev.1.1