

Power Limiter

0.5-18GHz /200W,Power Handling

Model: TLMT-0.5G18G-53-10

The TLMT-0.5G18G-53-10 is a broadband limiter product. This limiter has an operating frequency range that can cover 0.5-18 GHz and features stable performance.

Features:

- Frequency range:0.5-18 GHz
- RF Power Handling:200W(Pulse width: 3 us, duty cycle: 3%)
- Limiting power:10 dBm
- Low Insertion Loss
- 50 Ohm Matched Input / Output

Applications:

- Communication receiver
- Laboratory test
- Sensor radar

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	0.5-18			GHz
插损 Insertion Loss		1.5		dB
限幅电平 Limiting power		10		dBm
输入驻波 Input VSWR		1.8	2	:1
输出驻波 Output VSWR		1.8	2	:1
耐功率 Power handling	200W(Pulse width: 3 us, duty cycle: 3%)			
阻抗 Impedance	50			Ohms

*Note: Heatsink needs to be installed when limiter operating at high power.

机械特性 Mechanical Specifications:

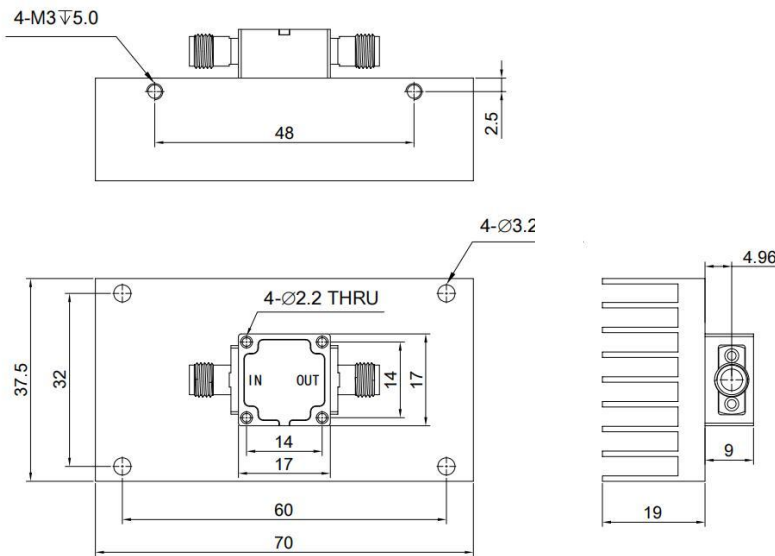
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	
尺寸 Size	17*17*9	mm

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
输入功率 RF Input Power	200W
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm



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

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			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
TLMT-0.5G18G-53-10	Power Limiter, 0.5-18GHz, Limiting power:10 dBm	Rev.1.1