

Power Limiter

DC-70GHz /30dBm Power Handling

Model: TLMTDC70G-30-13

The TLMTDC70G-30-13 is a broadband limiter product. This limiter has an operating frequency range that can cover DC-70 GHz and features stable performance.

Features:

- Frequency range: DC-70 GHz
- RF Power Handling: 30 dBm(CW)@10GHz
- Limiting power: 13 dBm@10GHz
- 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		DC-70			GHz
插损 Insertion Loss			4		dB
限幅电平 Limiting power	@10GHz		13		dBm
	@20GHz		11		
	@30GHz		9.5		
	@40GHz		8.5		
	@50GHz		8.5		
输入驻波 Input VSWR			2.0		:1
输出驻波 Output VSWR			2.0		:1
耐功率 Power handling		30(CW)			dBm
阻抗 Impedance		50			Ohms

机械特性 Mechanical Specifications:

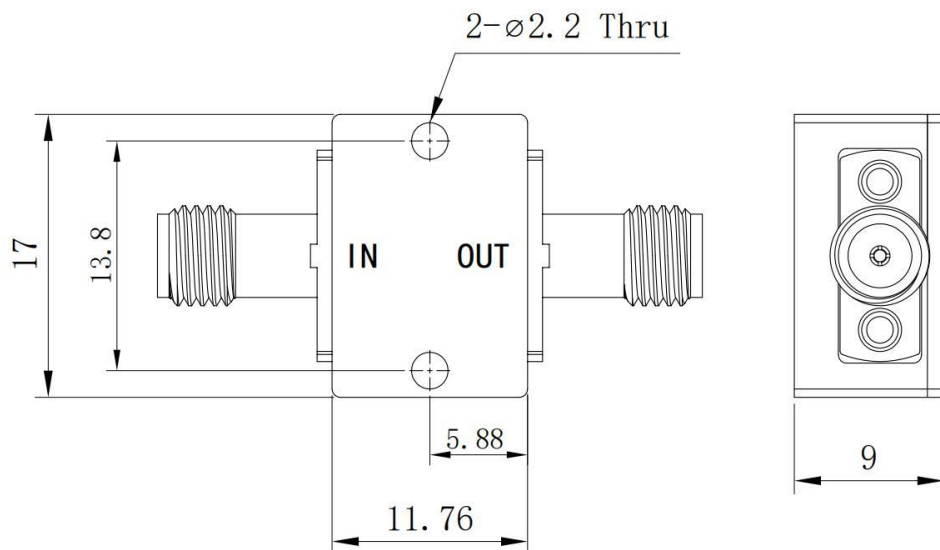
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	1.85mm Female/1.85mm Female	
尺寸Size	11.76*17*9	mm

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
输入功率 RF Input Power	+30 dBm@10GHz
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.

温度环境 Environmental Conditions:

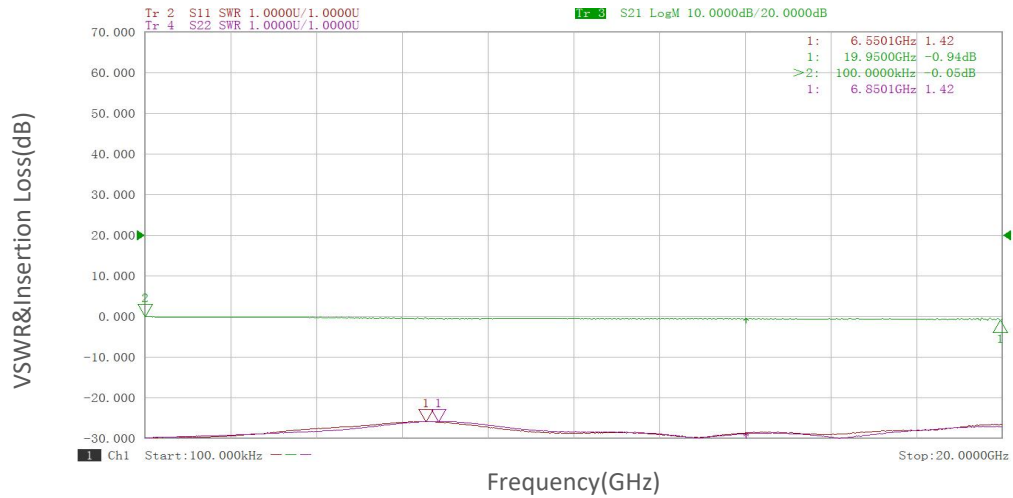
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

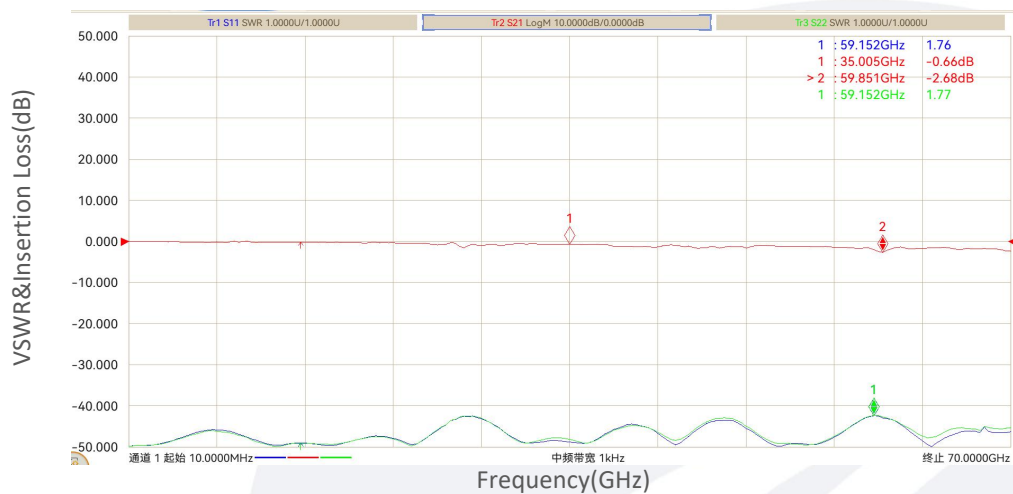
标准型号 Base Number	描述 Description	版本号 Revision
TLMTDC70G-30-13	Power Limiter, DC-70GHz, Limiting power:13 dBm	Rev.1.1

典型曲线 Typical Performance Data:

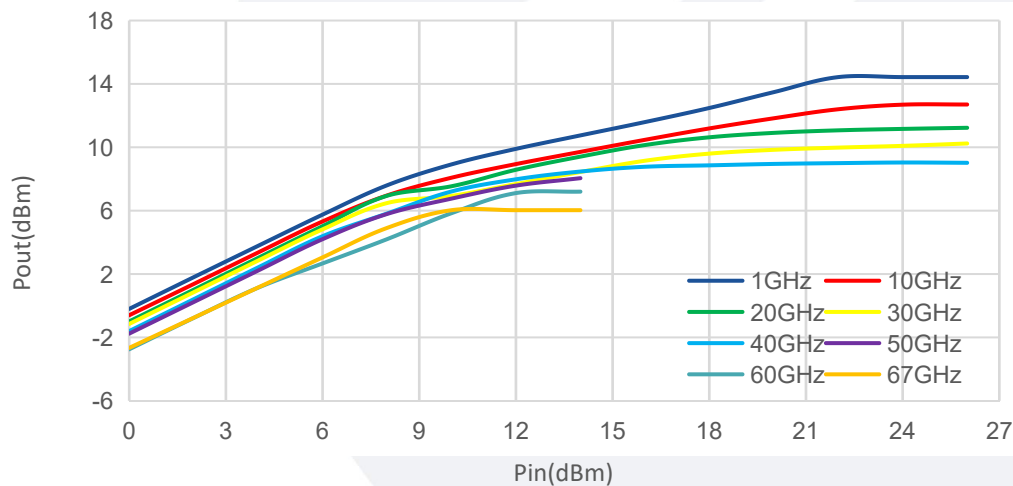
VSWR&Insertion Loss vs Frequency



VSWR&Insertion Loss vs Frequency



Pout vs Pin



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.