

Power Limiter

DC-18GHz/20W, Power Handling

Model: TLMTDC18G-20W-16

The TLMTDC18G-20W-16 is a broadband limiter product. This limiter has an operating frequency range that can cover DC-18 GHz and features stable performance.

Features:

- Frequency range: DC-18 GHz
- RF Power Handling: 20W(CW)
- Limiting power: 15dBm
- 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-18		GHz
插损 Insertion Loss		1		dB
限幅电平 Limiting power		15		dBm
输入回波损耗 Input Return Loss		-18		dB
输出回波损耗 Output Return Loss		-18		dB
耐功率 Power handling		20W(CW)		
阻抗 Impedance		50		Ohms

机械特性 Mechanical Specifications:

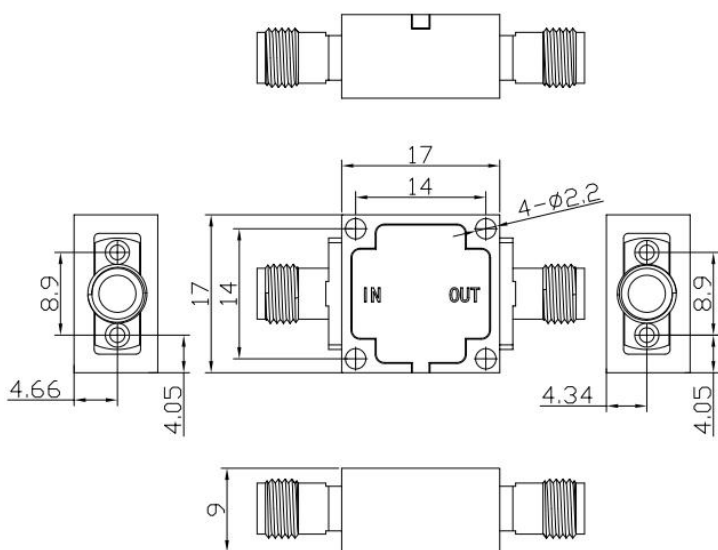
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	
尺寸 Size	17*17*9	mm

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
输入功率 RF Input Power	+43 dBm
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:

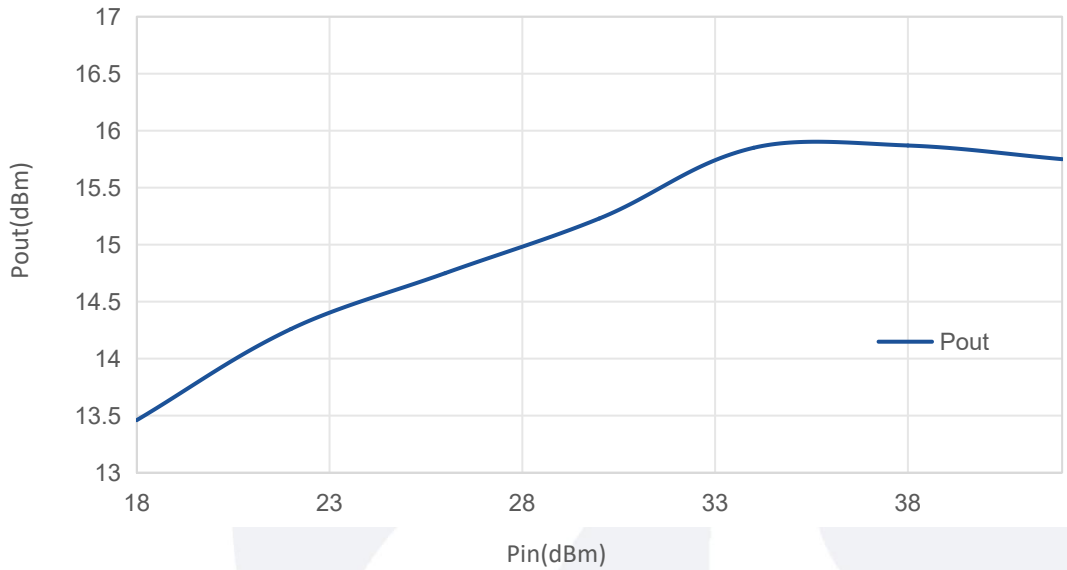
标准型号 Base Number	描述 Description	版本号 Revision
TLMTDC18G-20W-16	Power Limiter, DC-18GHz, Limiting power: 15dBm	Rev.1.1

典型曲线 Typical Performance Data:

Insertion Loss & Return 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.