

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

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range		DC-18		GHz
Insertion Loss		1		dB
Limiting power		15		dBm
Input Return Loss		-18		dB
Output Return Loss		-18		dB
Power handling		20W(CW)		
Impedance		50		Ohms

Mechanical Specifications:

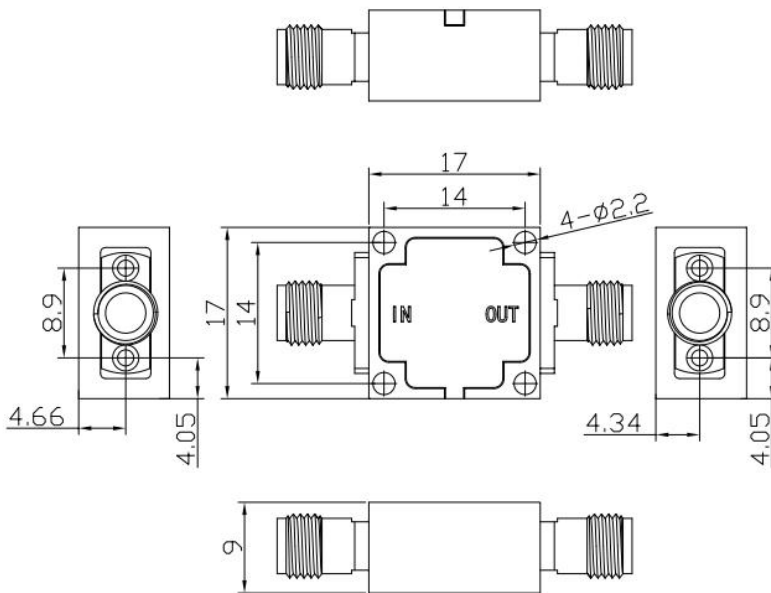
Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
Size	17*17*9	mm

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	+43 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



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

Environmental Conditions:

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

Ordering Information:

Base Number	Description	Revision
TLMTDC18G-20W-16	Power Limiter, DC-18GHz, Limiting power: 15dBm	Rev.1.1

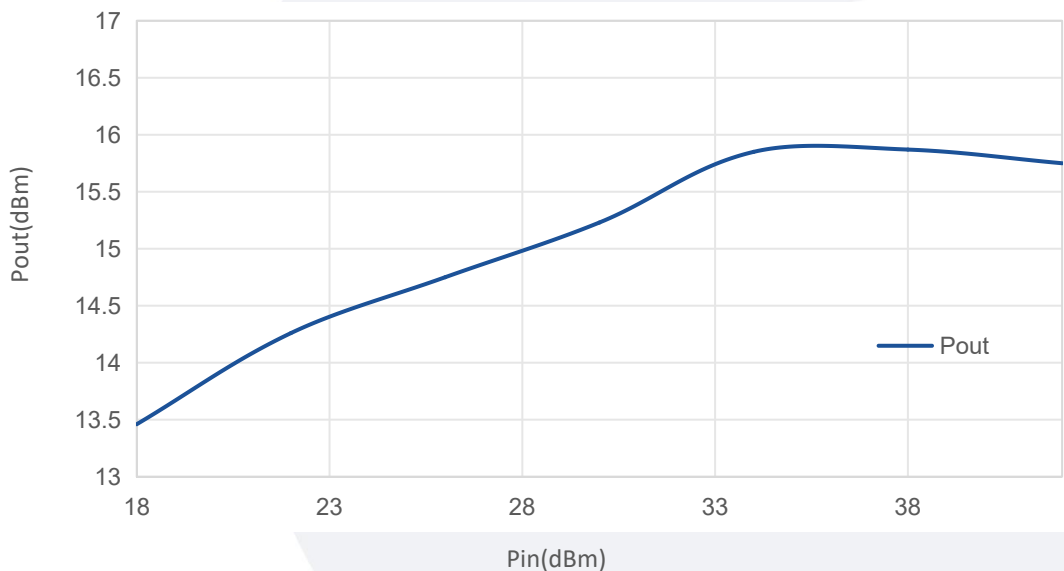
Typical Performance Data:

Insertion Loss&Return Loss vs Frequency



Frequency(GHz)

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.