

Power Limiter

DC-40GHz/32dBm, Power Handling

Model: TLMTDC40G-35-12

The TLMTDC40G-35-12 is a broadband limiter product. This limiter has an operating frequency range that can cover DC-40 GHz and features stable performance.

Features:

- Frequency range: DC-40GHz
- RF Power Handling: 32dBm
- Limiting power: 7dBm@40GHz, Pin=16dBm
- 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		40	GHz
Insertion Loss			2.3		dB
Limiting power	1GHz@Pin=20dBm		12		dBm
	20GHz@Pin=20dBm		11		
	40GHz@Pin=16dBm		7		
Input IP3			25		dBm
Input P1dB			11		dBm
VSWR			2		:1
Power handling			32		dBm
Impedance			50		Ohms

Mechanical Specifications:

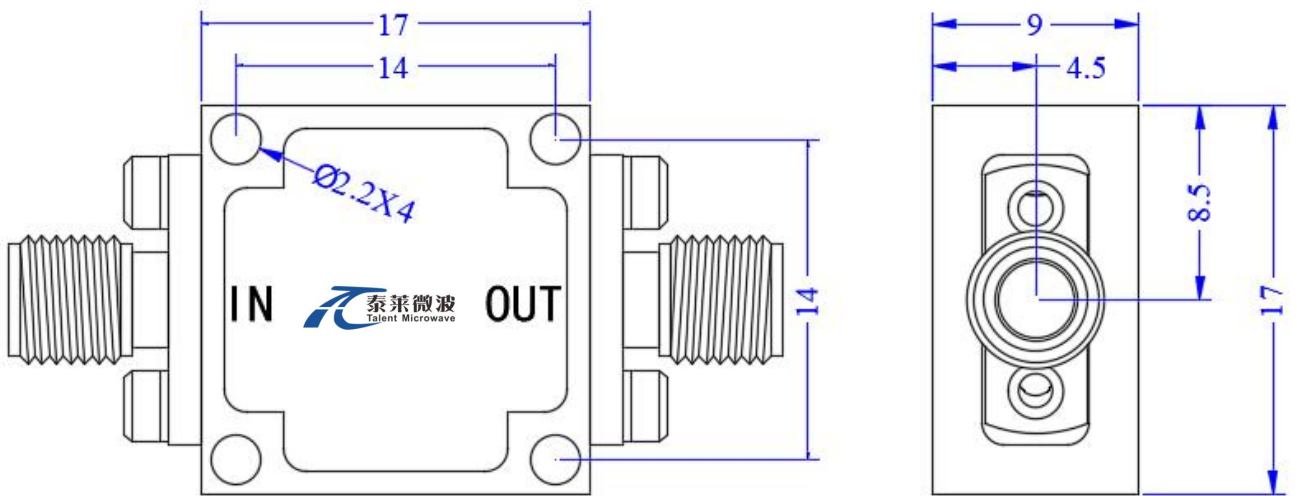
Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
Size	17*17*9	mm
Weight	50	g

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	+32 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

Environmental Conditions:

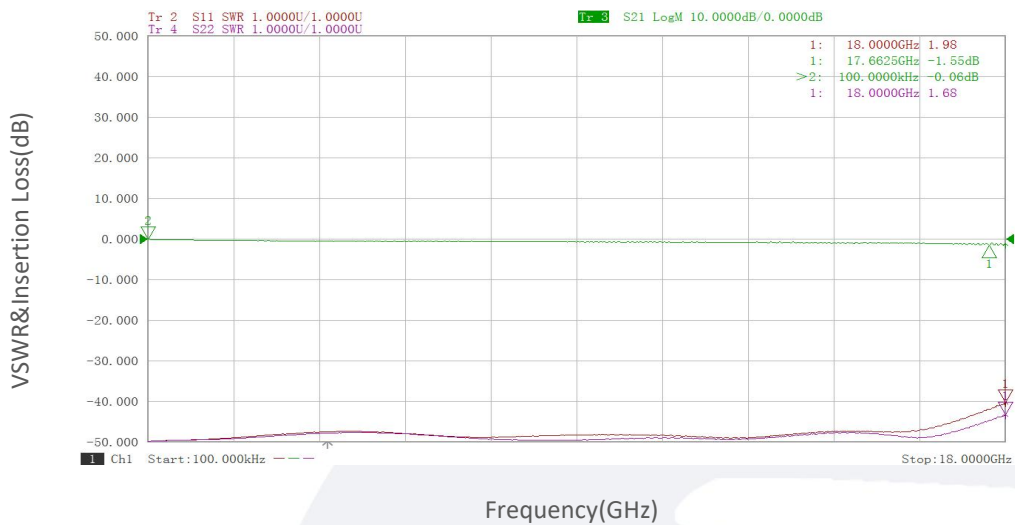
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude		10,000		feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

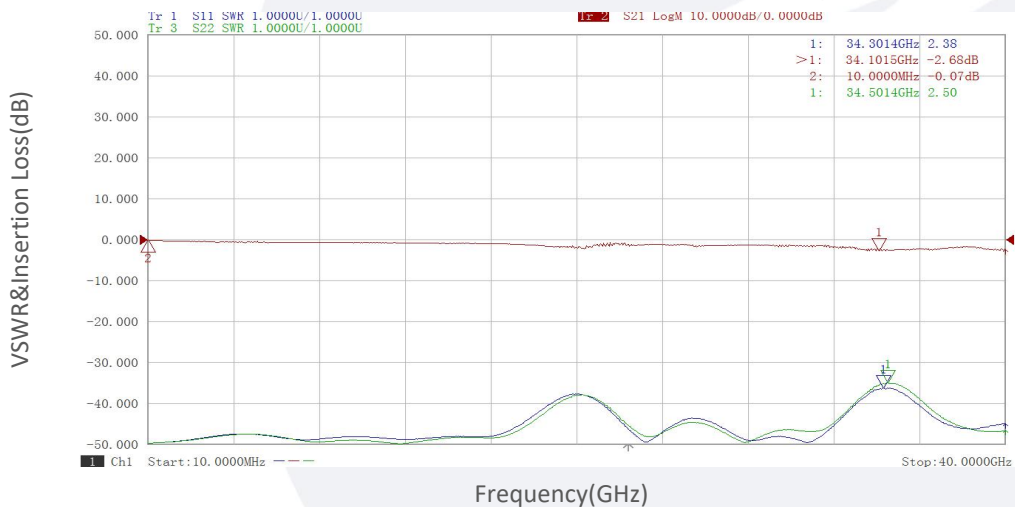
Base Number	Description	Revision
TLMTDC40G-35-12	Power Limiter, DC-40GHz, Limiting power: 7dBm	Rev.1.0

Typical Performance Data:

VSWR&Insertion Loss vs Frequency



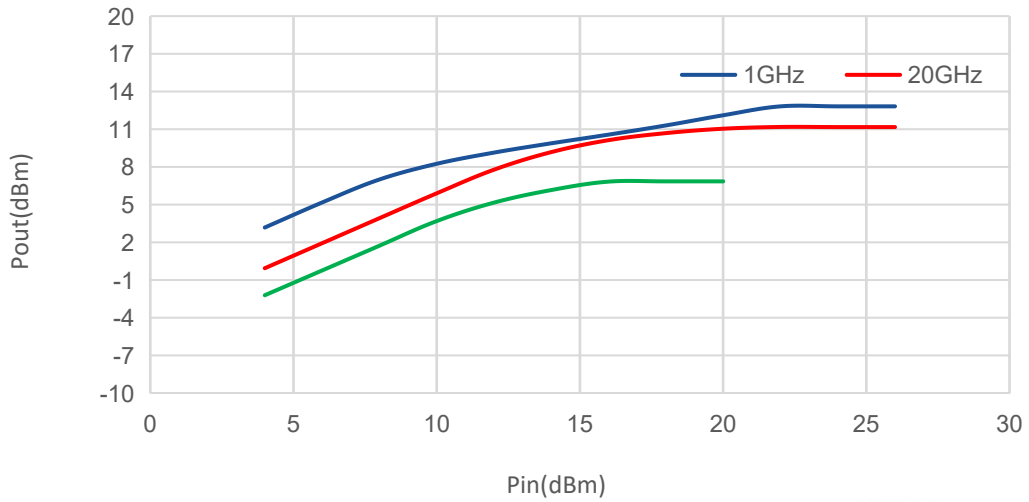
VSWR&Insertion Loss vs Frequency



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.

Typical Performance Data:

Pout vs Pin



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