



Limiters - PE80L4000

Features

- · High Speed 100 Watt Peak Limit
- 12 GHz to 18 GHz Frequency Range
- Insertion Loss @ -20 dBm 1.5 dB
- VSWR @ -20 dBm 1.5:1

- Leakage @ 1 Watt CW 10 dBm
- High Power Handling
- Recovery Time 10 nsec Max

Applications

- Electronic Warfare
- Test & Measurement
- · Military & Space
- Military Communication Systems
- Stabilizing generator outputs
- Reducing amplitude variations
- Protects low noise amplifiers and other devices from ESD or input power damage
- Receiver Protection

Weapon systems

Description

The PE80L4000 is a High Power Limiter that operates from 12 GHz to 18 GHz. The Limiter handles 100 Watts Peak Incident Power with a pulse of 1 us. Input Connector is Male SMA and Output Connector is Female SMA.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--|---------|---------|---------|-------|
| Frequency Range | 12 | | 18 | GHz |
| Insertion Loss @Pin=-20 dBm | | 1.5 | 2 | dB |
| Input VSWR | | 1.5:1 | 2:1 | |
| Output VSWR | | 1.5:1 | 2:1 | |
| Leakage (CW) @ 1 Watt CW | | +10 | +14 | dBm |
| Recovery Time | | | 10 | ns |
| Input Power (CW) | | | 1 | Watt |
| Derated by 20% @ +125°C | | | | |
| Input Power (Peak) @1us pulse, 0.1% Duty Cycle | | | 100 | Watt |
| | | | | |

Electrical Specification Notes:

Values at 25°C, sea level.

Mechanical Specifications

Size

 Length
 1 in [25.4 mm]

 Width
 1 in [25.4 mm]

 Height
 0.4 in [10.16 mm]

 Weight
 0.033 lbs [14.97 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA High Power Limiter, 100 Watts Peak Power, 10 ns Recovery, 14 dBm Flat Leakage, 12 GHz to 18 GHz PE80L4000

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623

Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com







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Configuration

Style

Connector 1

Connector 2

High Power Limiter SMA Male

SMA Female

Environmental Specifications

Temperature

Operating Range

Storage Range

Humidity

Shock

Vibration

Altitude

Temperature Cycle

Fungus

Salt Fog

ESD Sensitivity

-54 to +85 deg C

-65 to +100 deg C

MIL-STD-202F, METHOD 103B COND. B

MIL-STD-202F, METHOD 213B COND. B

MIL-STD-202F, METHOD 204D COND. B

MIL-STD-202F, METHOD 105C COND, B

MIL-STD-202F, METHOD 107D COND, A MIL-STD-810F, METHOD 508.5

MIL-STD-202F, METHOD 101D+EST Cond.B

Transport material in Approved ESD bags. Handle only

in approved ESD Workstation.



Compliance Certifications (visit www.Pasternack.com for current document)

Not RoHS Compliant

Plotted and Other Data

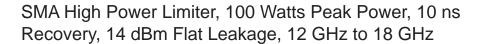
Notes:

Values at 25°C, sea level.

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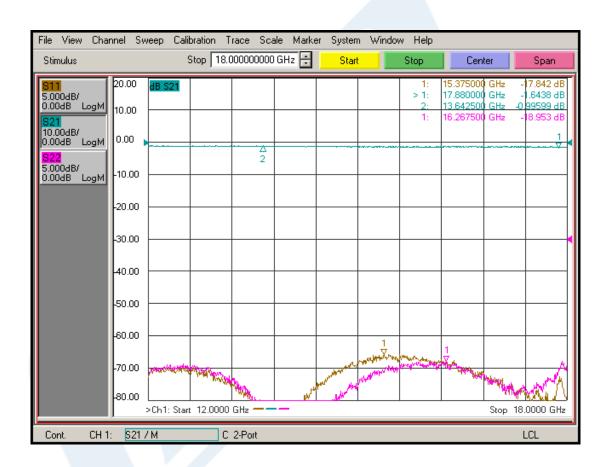




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Typical Performance Data

Insertion Loss & Return Loss



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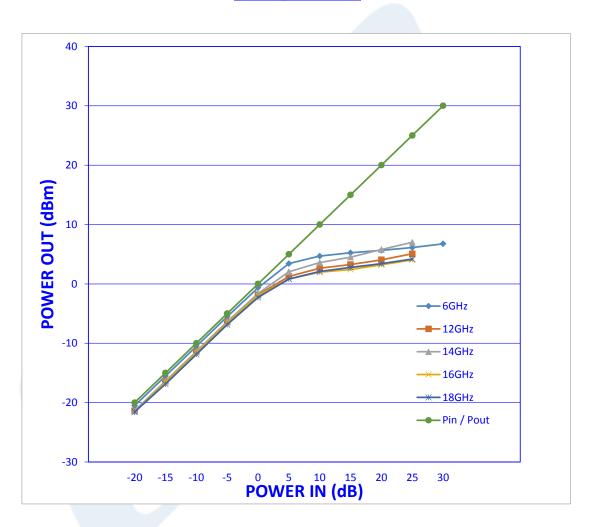






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Limiting Response

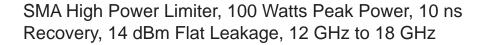


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PE80L4000 REV 1.0



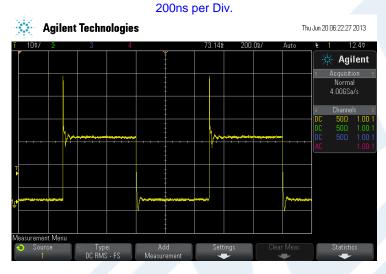




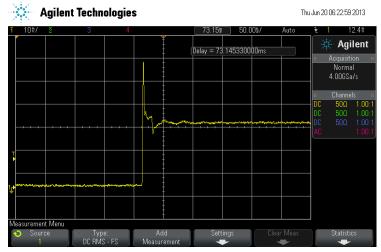


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Recovery Time (1W @ 6GHz -Pulsed @ 1MHz, 50% Duty Cycle)



50ns per Div.



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SMA High Power Limiter, 100 Watts Peak Power, 10 ns Recovery, 14 dBm Flat Leakage, 12 GHz to 18 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/sma-limiter-high-power-10-ns-10-dbm-18-ghz-pe80l4000-p.aspx

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PE80L4000 CAD Drawing

SMA High Power Limiter, 100 Watts Peak Power, 10 ns Recovery, 14 dBm Flat Leakage, 12 GHz to 18 GHz

