



SMA High Power Limiter, 200 Watts Peak Power, 100 ns Recovery, 14 dBm Flat Leakage, 2 GHz to 18 GHz, Hermetic Seal

Limiters Technical Data Sheet

PE80L3000

Features

- 200 Watt Peak Power
- 1 Watt CW Power
- 2 GHz to 18 GHz Frequency Range
- 100 nsec Recovery Time Max
- +6 dBm Typ Limiting Threshold
- 2.0 dB Max Insertion Loss
- Hermetically Sealed Package

Applications

- Military Communications Systems
- Electronic Warfare
- Military & Space
- Radar
- Test & Measurement

Description

The PE80L3000 is a High Power Limiter that operates in the 2 GHz to 18 GHz Frequency Range. The Limiter Handles 200 Watts Peak Power with a pulse width of 1 usec and 0.1% Duty Cycle of 1 Watt CW. The limiter is Hermetically Sealed. The Input Connector is Male SMA and the Output Connector is Female SMA.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2		18	GHz
Insertion Loss @Pin=-10 dBm			2	dB
Input VSWR			2:1	
Output VSWR			2:1	
Leakage (CW)			+14	dBm
Recovery Time @Pin=27 dBm			100	ns
Input Power (CW)			1	Watt
Derated by 20% @ +125°C				
Input Power (Peak) @1us pulse, 0.1% Duty Cycle			200	Watt
Limiting Threshold		+6		dBm

Electrical Specification Notes:
Values at 25°C, sea level.

Mechanical Specifications

Size

Length	0.75 in [19.05 mm]
Width	1 in [25.4 mm]
Height	0.3 in [7.62 mm]
Weight	0.044 lbs [19.96 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, 200 Watts Peak Power, 100 ns Recovery, 14 dBm Flat Leakage, 2 GHz to 18 GHz, Hermetic Seal PE80L3000](#)



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Configuration

Style

Package Style

Connector 1

Connector 2

High Power Limiter

Hermetically Sealed

SMA Male

SMA Female

Environmental Specifications

Temperature

Operating Range

Storage Range

-55 to +125 deg C

-65 to +125 deg C

Humidity

Shock

Vibration

Altitude

Temperature Cycle

Fungus

Salt Fog

Hermetic Seal

ESD Sensitivity

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

Hermetically Sealed

Transport material in Approved ESD bags. Handle only
in approved ESD Workstation.



Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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Typical Performance Data

Insertion Loss and Return Loss



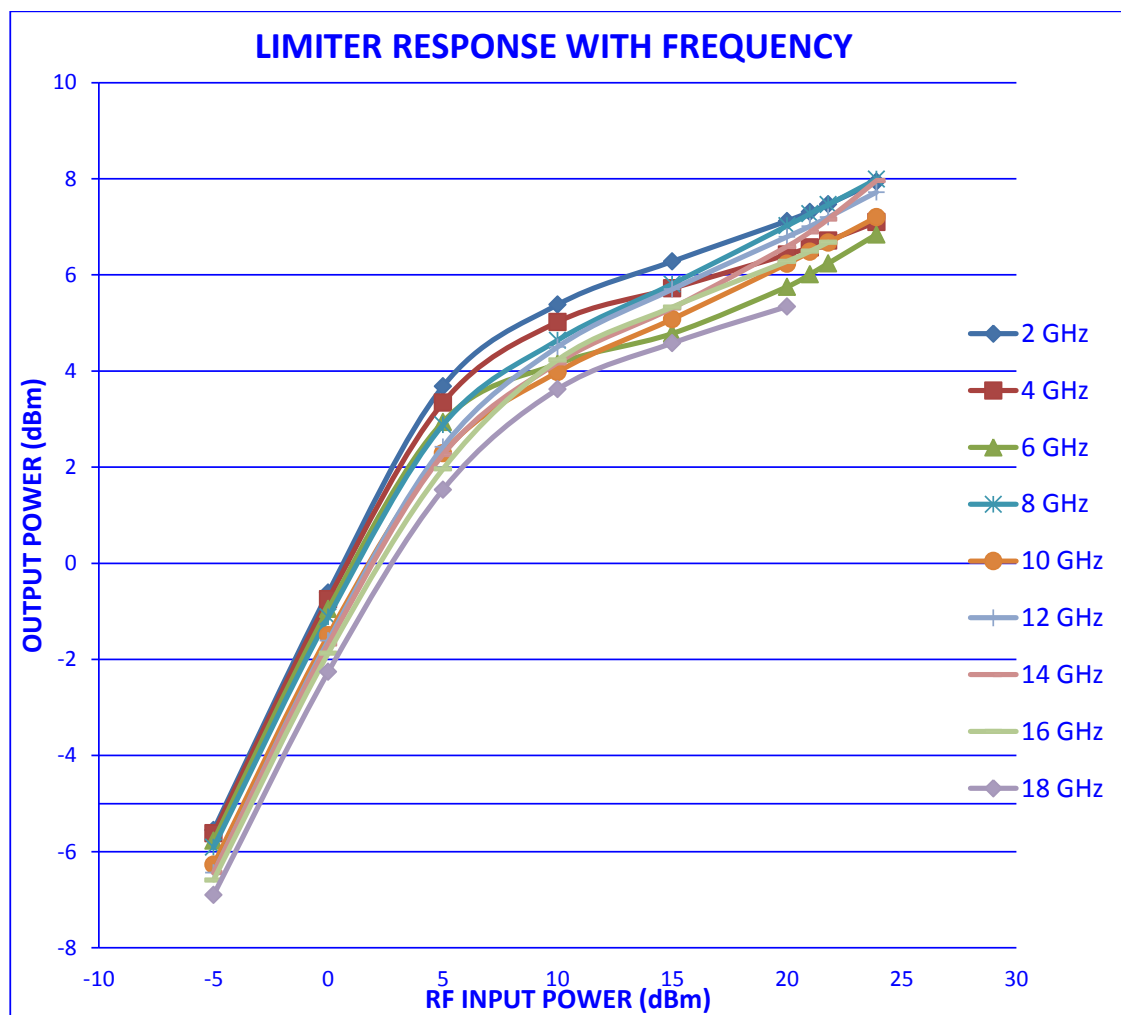
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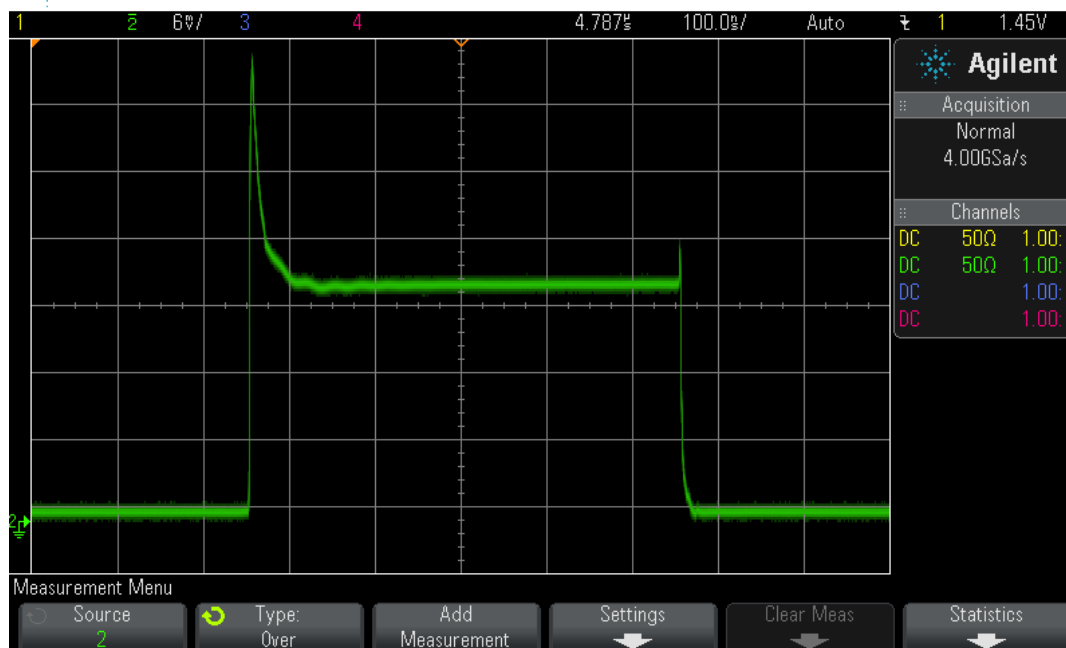
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Agilent Technologies

Tue Nov 27 01:41:42 2012



Recovery Time

100ns per Div.

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SMA High Power Limiter, 200 Watts Peak Power, 100 ns Recovery, 14 dBm Flat Leakage, 2 GHz to 18 GHz, Hermetic Seal from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

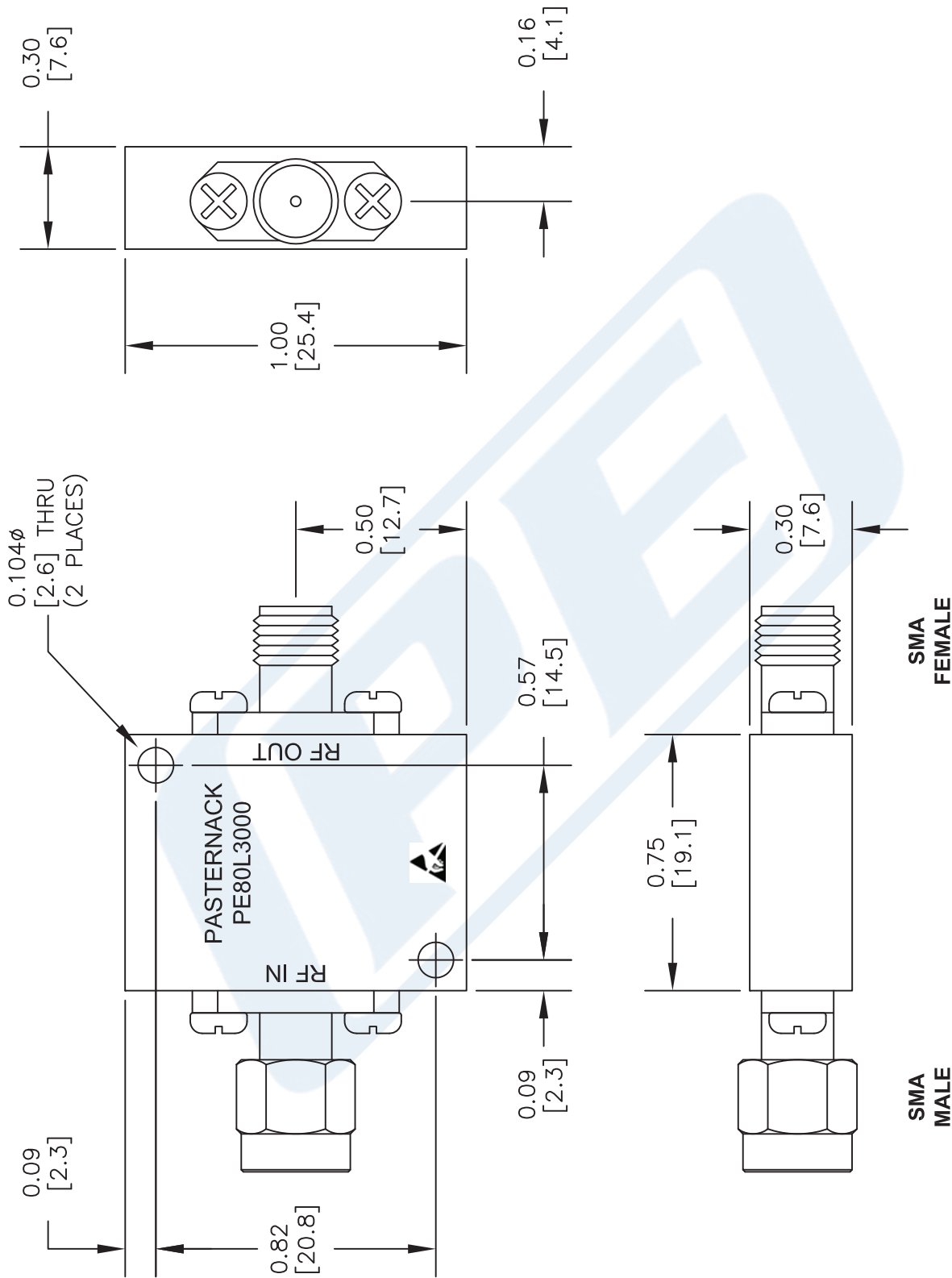
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE80L3000 CAD Drawing

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DWG TITLE

PE80L3000

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

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CAD FILE 031914

SCALE N/A

SIZE A

2233