



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

Limiters - 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

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) @ 1 Watt CW			+14	dBm
Recovery Time @Pin=27 dBm			100	ns
Input Power (CW) Derated by 20% @ +125°C			1	Watt
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	0.033 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, 200 Watts Peak Power, 100 ns Recovery, 14 dBm Flat Leakage, 2 GHz to 18 GHz PE80L3000](#)



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Configuration

Style

Connector 1

Connector 2

High Power Limiter

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

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

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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Typical Performance Data

Insertion Loss and Return Loss

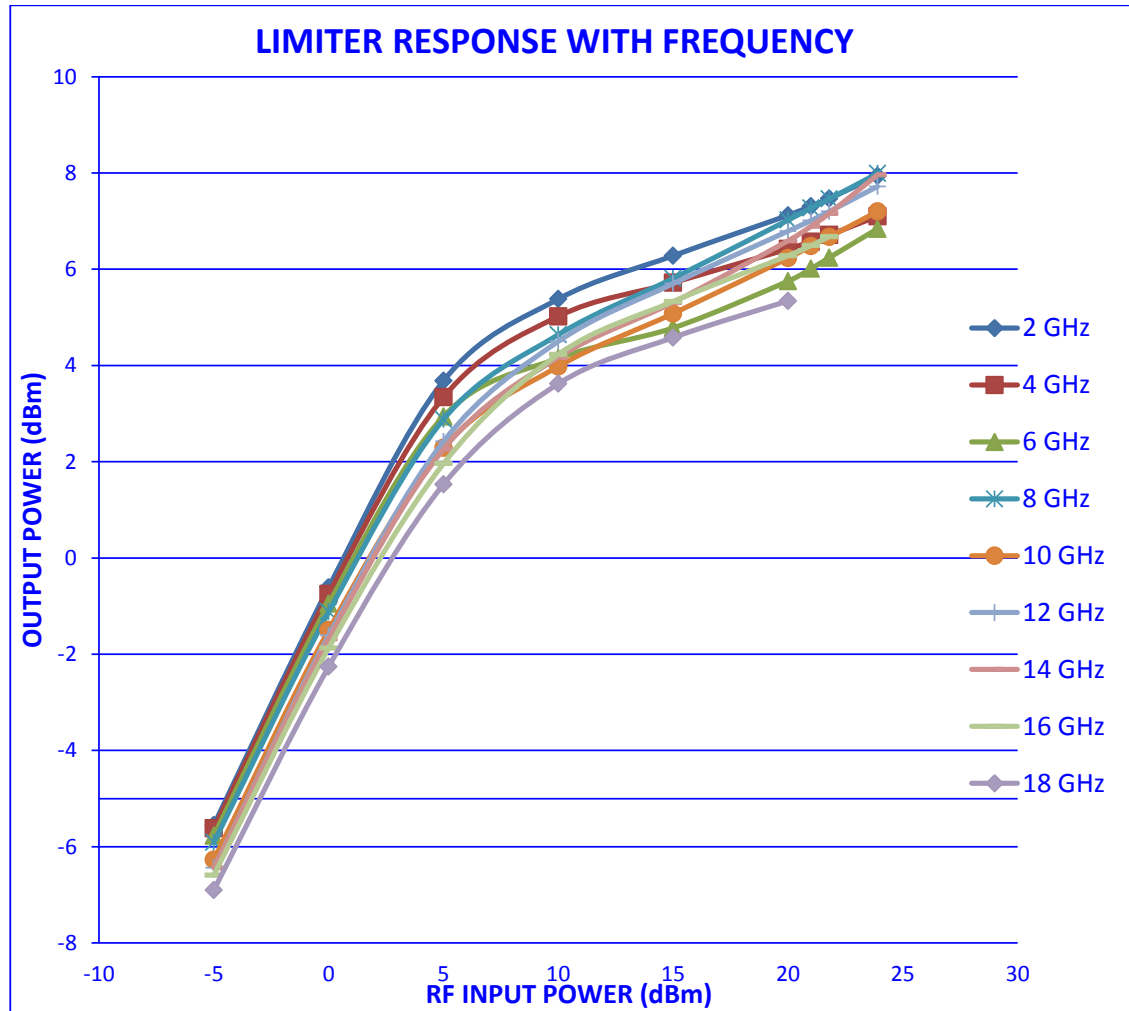


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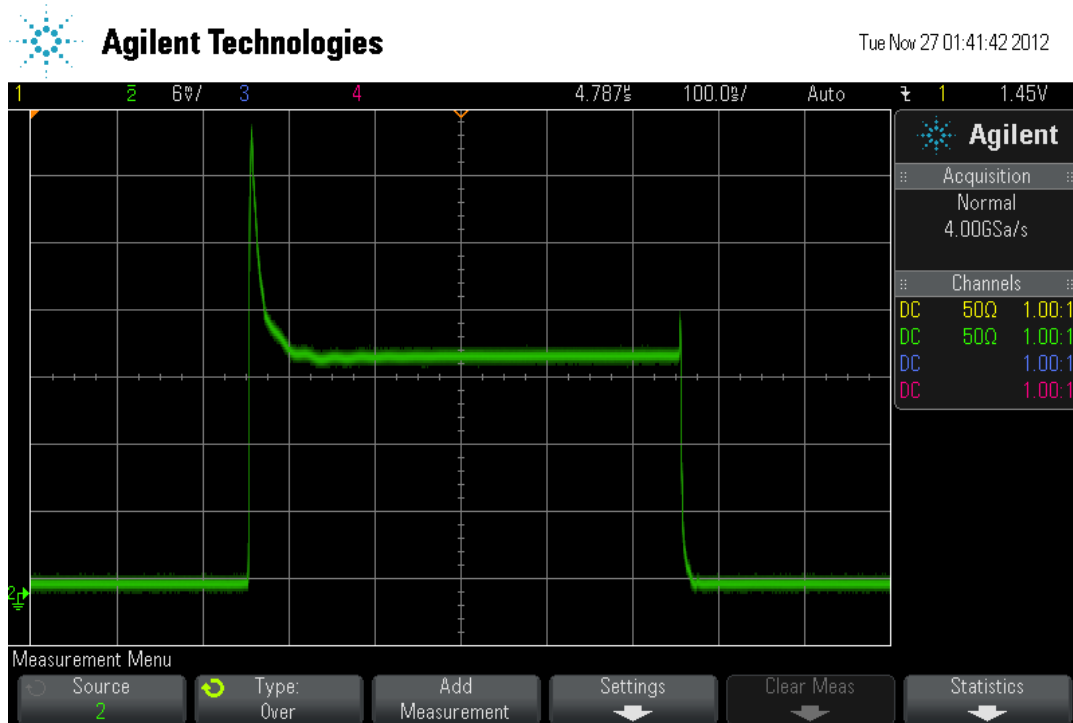


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Recovery Time

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 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.

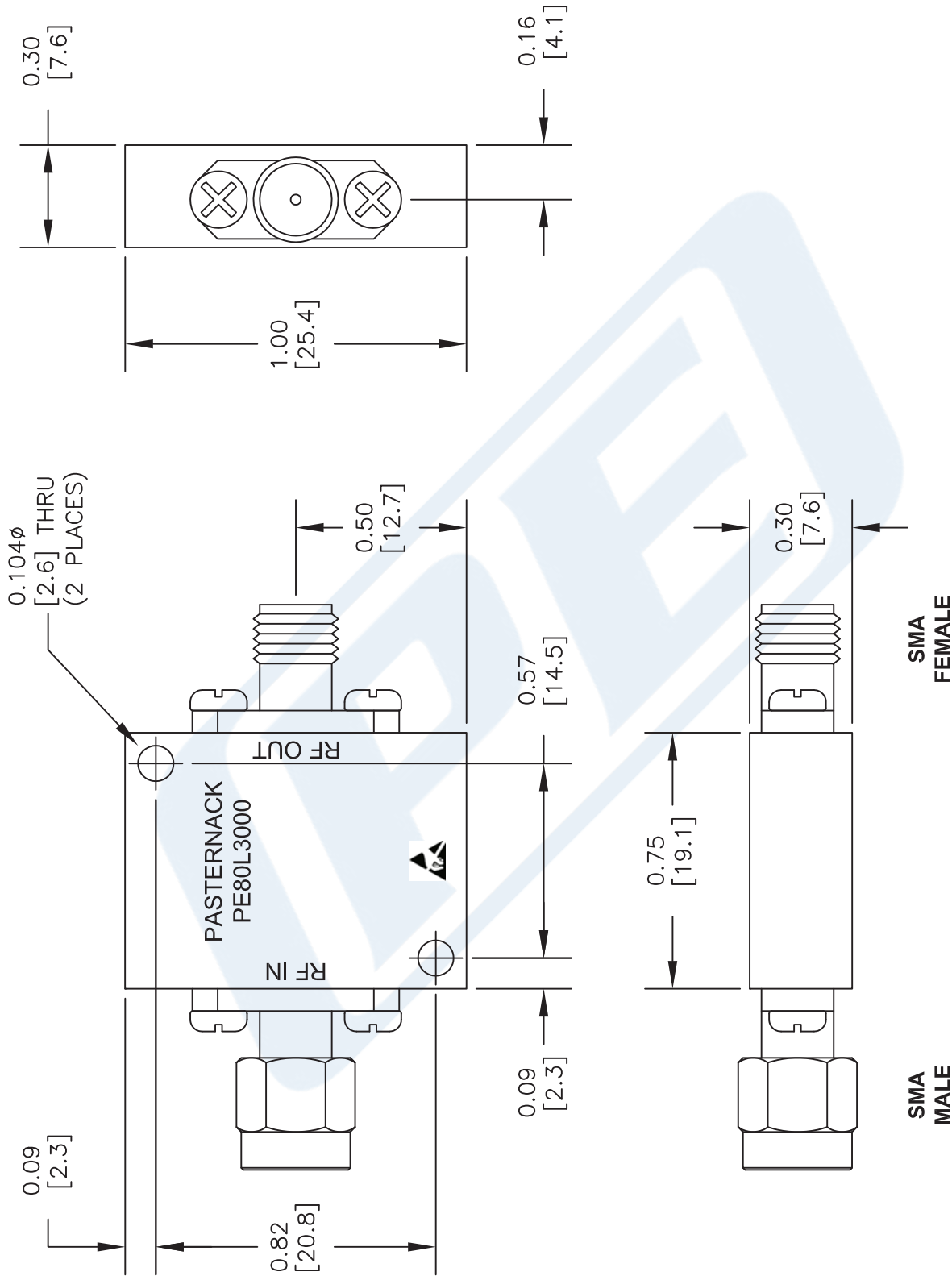
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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

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



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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FSCM NO. 53919

CAD FILE 031914

SCALE N/A

SIZE A

2233