



SMA High Power Limiter, 100 Watts Peak Power, 12 ns Recovery, 15 dBm Flat Leakage 6 GHz to 18 GHz

## Limiters Technical Data Sheet

PE80L2000

### Features

- High Speed 10 Watt CW Limit
- 6 GHz to 18 GHz Frequency Range
- Peak Power 10 Watts CW
- Insertion Loss 2.5 dB Typ
- Leakage Power +15 dBm Typ
- High Power Handling

### 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 PE80L2000 is a High Power Limiter that operates from 6 GHz to 18 GHz. The Limiter handles 10 W CW Power and operates from -55 Deg C to + 85 Deg C.

### Electrical Specifications

| Description                                    | Minimum | Typical | Maximum | Units |
|--|---------|---------|---------|-------|
| Frequency Range                                | 6       |         | 18      | GHz   |
| Insertion Loss                                 |         | 2.5     |         | dB    |
| Leakage (CW)                                   |         | +15     |         | dBm   |
| Recovery Time                                  |         |         | 12      | ns    |
| Input Power (CW)                               |         |         | 10      | Watt  |
| 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 | 0.5 in [12.7 mm]     |
| Weight | 0.0625 lbs [28.35 g] |

#### Configuration

|             |            |
|-------------|------------|
| Style       | Limiter    |
| Connector 1 | SMA Female |
| Connector 2 | SMA Female |

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, 12 ns Recovery, 15 dBm Flat Leakage 6 GHz to 18 GHz PE80L2000](#)



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### Environmental Specifications

#### Temperature

Operating Range

-55 to +85 deg C

Storage Range

-65 to +125 deg C

Humidity

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

Shock

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

Vibration

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

Altitude

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

Temperature Cycle

MIL-STD-202F, METHOD 107D COND. A

### 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 S21 (0 dBm Input)



Return Loss S11 & S22 (0 dBm Input)



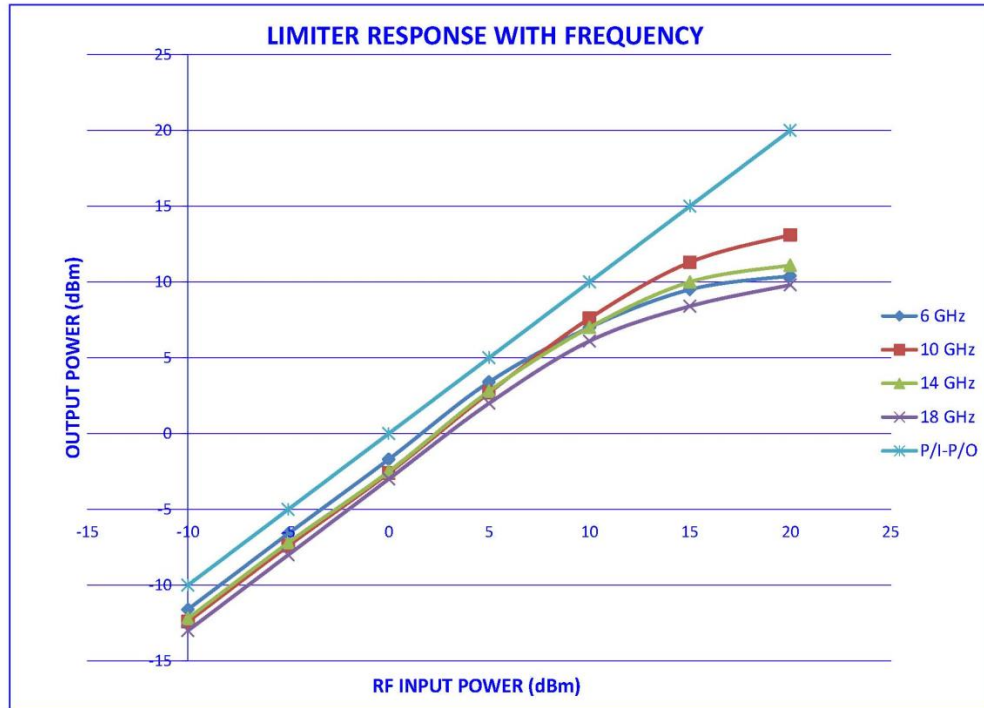
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA High Power Limiter, 100 Watts Peak Power, 12 ns Recovery, 15 dBm Flat Leakage 6 GHz to 18 GHz PE80L2000](#)



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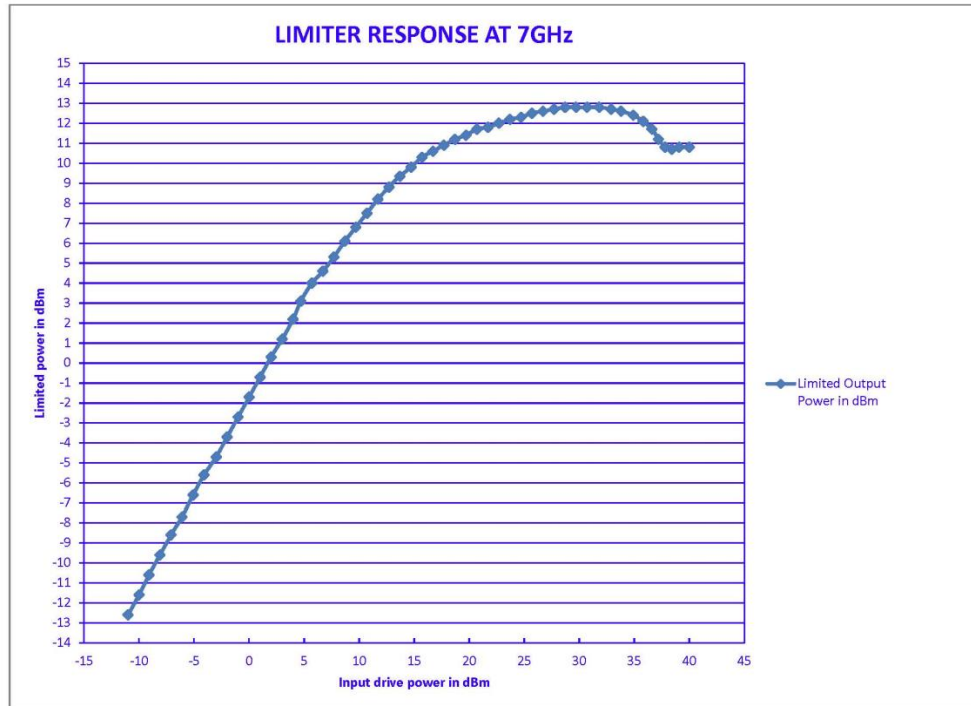
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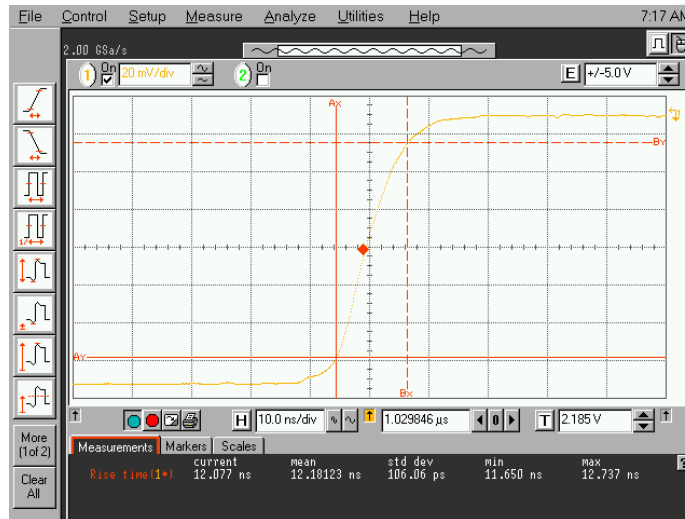


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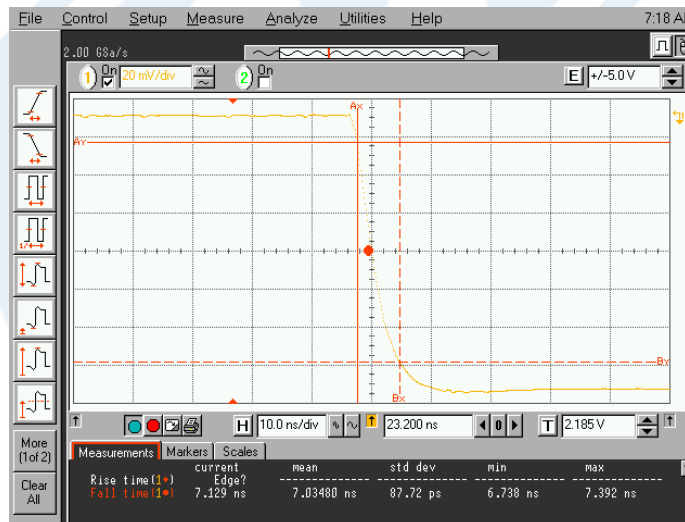
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Recovery Time



Rise Time



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SMA High Power Limiter, 100 Watts Peak Power, 12 ns Recovery, 15 dBm Flat Leakage 6 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 99.4% availability and are part of the broadest selection in the industry.

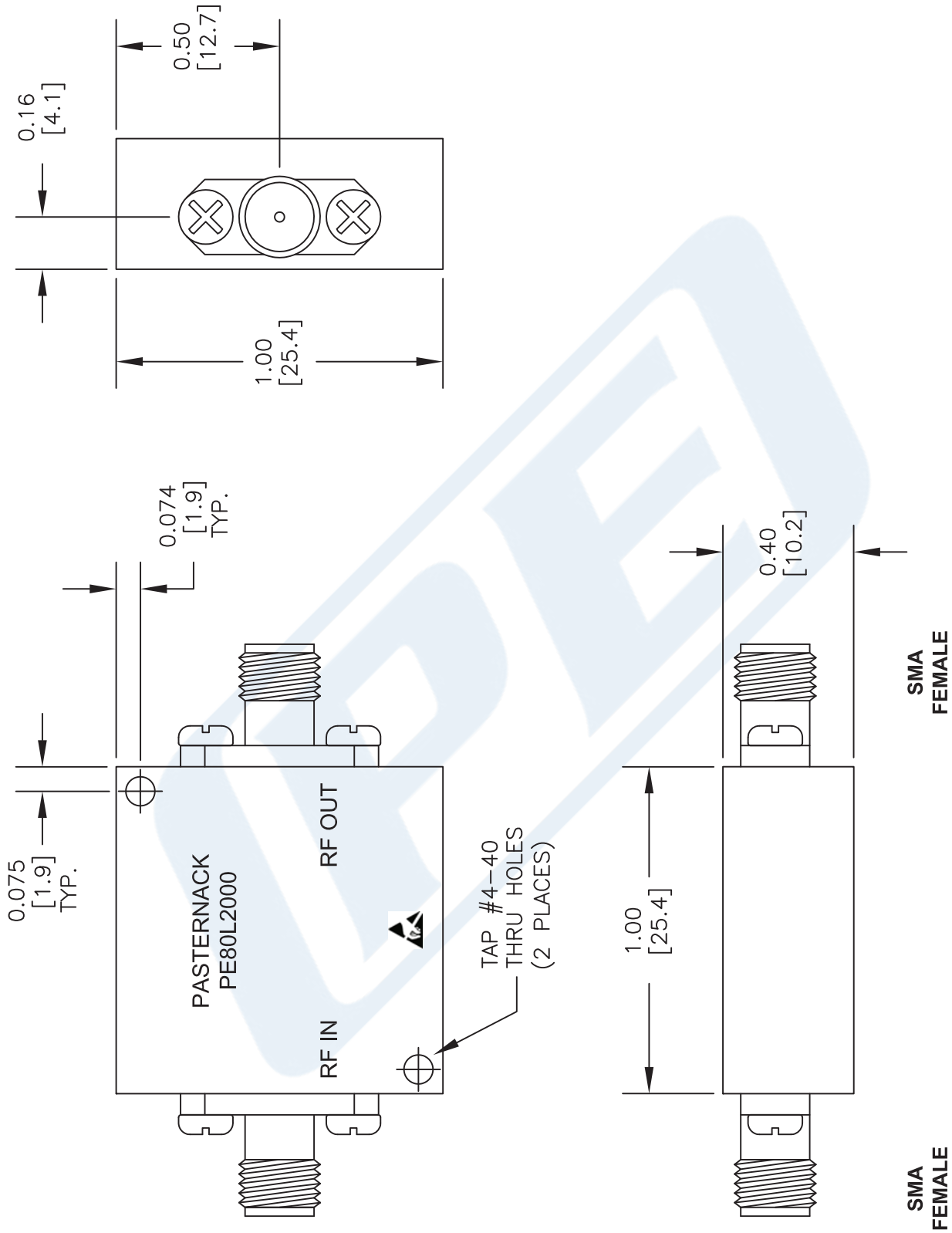
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

# PE80L2000 CAD Drawing

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Recovery, 15 dBm Flat Leakage 6 GHz to 18 GHz



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].

DWG TITLE  
**PE80L2000**

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CAD FILE 031914

SCALE N/A

SIZE A

2233