

High Power Limiter, Field Replaceable SMA, 100W Peak Power, 15 us Recovery, 18 dBm Flat Leakage, 500 MHz to 18 GHz



PE80L2005

Limiters Technical Data Sheet

Features

- 5 Watt Input Power(CW)
- 500 MHz to 18 GHz Frequency Range
- 2 dB Insertion Loss max.
- VSWR 1.8:1
- Leakage @ 1 Watt CW +18 dBm Max

Applications

- Electronic Warfare
- Test & Measurement
- Military & Space
- Military Communication Systems
- Stabilizing generator outputs

- +50 dBm Peak Input Power
- Limiting Threshold +14 dBm
- Field Replaceable SMA Connectors
- Fast Response and Short Recovery Time 15 µs typical
- Compact and Rugged Thin Film Construction
- Reducing amplitude variations
- Protects low noise amplifiers and other devices from ESD or input power damage
- Receiver Protection

Weapon systems

Description

The PE80L2005 is an Signal Limiter that operates in the 5 MHz to 18 GHz frequency range. The Limiter has up to 5 Watts CW input power handling capability with a +18 dBm max leakage output power level and +50 dBm peak input power. Typical performance incudes 2 dB max insertion loss, 1.8:1 typical input VSWR, and a fast response and short recovery time of 15 µsec. The excellent technical performance is achieved through the use of thin film stripline circuit construction. The low profile pin package supports field replaceable SMA connectors and can be drop mounted onto a PWB. The Limiter is designed for high reliability and meets MIL-STD-202F environmental test conditions for Humidity, Shock, Vibration, and Altitude.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.5		18	GHz
Insertion Loss			2	dB
Input VSWR		1.8:1		
Leakage (CW)			+18	dBm
@ 1 Watt CW				
Recovery Time		15		us
nput Power (CW)			5	Watt
Input Power (Peak) @10µs Pulse Width 5% Duty Cycle			100	Watt
_imiting Threshold	+14			dBm

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: High Power Limiter, Field Replaceable SMA, 100W Peak Power, 15 us Recovery, 18 dBm Flat Leakage, 500 MHz to 18 GHz PE80L2005

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451



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Mechanical Specifications Size

Length Width Height Weight

Configuration Style

Package Style Connector 1 Connector 2 **Connector Option**

Environmental Specifications

- Temperature Operating Range Storage Range
- Humidity Shock Vibration Altitude

0.788 in [20.02 mm] 0.63 in [16 mm] 0.394 in [10.01 mm] 0.04 lbs [18.14 g]

Limiter Connectorized SMA Female **SMA** Female Field Replaceable

0 to +50 deg C -45 to +100 deg C

MIL-STD-202F, Method 103B, Condition B MIL-STD-202F, Method 213B, Condition B MIL-STD-202F, Method 204D, Condition B MIL-STD-202F, Method 105C, Condition B

Compliance Certifications (see product page for current document) **DFARS** Compliant

01/12/2017

Plotted and Other Data

Notes:

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VSWR 3.0 2.8 Input 2.6 Output 2.4 2.2 2.0 1.8 1.6 1.4 1.2 1.0 0.5 GHz 2.3 4.0 5.8 7.5 9.3 11.0 12.8 14.5 16.3 18.0 dB Insertion Loss 0.0 -0.3 -0.6 -0.9 -1.2 -1.5 -1.8 -2.1 -2.4 -2.7 -3.0 0.5 GHz 4.0 5.8 7.5 2.3 9.3 11.0 12.8 14.5 16.3 18.0

Typical Performance Data

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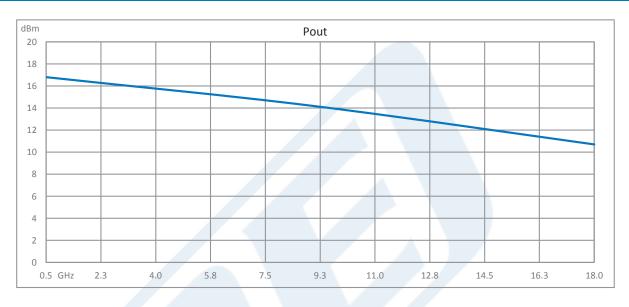




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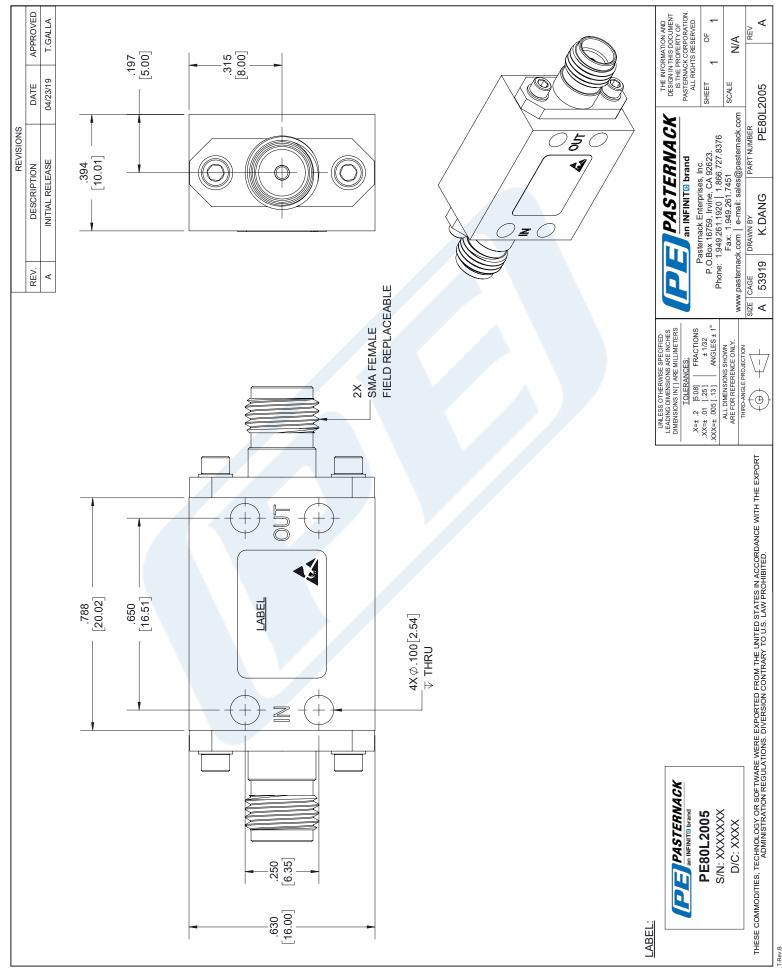
URL: https://www.pasternack.com/sma-limiter-15-us-18-dbm-18-ghz-pe80l2005-p.aspx

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PE80L2005 CAD Drawing

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