

High Power Limiter, Field Replaceable SMA,
20W Peak Power, 15 us Recovery, 14 dBm
Flat Leakage, 2 GHz to 18 GHz



PE80L2006

Features

- 1 Watt Input Power(CW)
- 2 GHz to 18 GHz Frequency Range
- 2.5 dB Insertion Loss max.
- VSWR 2:1
- Leakage @ 1 Watt CW +14 dBm Max
- +20 W Peak Input Power
- Limiting Threshold +6 dBm
- Field Replaceable SMA Connectors
- Fast Response and Short Recovery Time 15 μ s typical
- Compact and Rugged Thin Film Construction

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 PE80L2006 is a Signal Limiter that operates in the 2 GHz to 18 GHz frequency range. The Limiter has up to 1 Watt CW input power handling capability with a +14 dBm max leakage output power level and +20 dBm peak input power. Typical performance includes 2.5 dB typ insertion loss, 2:1 typical input VSWR, and a fast response and short recovery time of 15 μ sec. 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	Min	Typ	Max	Unit
Frequency Range	2		18	GHz
Insertion Loss		2.5		dB
Input VSWR		2:1		
Leakage (CW) @ 1 Watt CW			+14	dBm
Recovery Time*		15		us
Input Power (CW)			1	Watt
Input Power (Peak) @10 μ s Pulse Width 5% Duty Cycle			20	Watt
Limiting Threshold		+6		dBm

Mechanical Specifications

Size

Length	0.63 in [16 mm]
Width	0.75 in [19.05 mm]
Height	0.35 in [8.89 mm]
Weight	0.0375 lbs [17.01 g]

Configuration

Style	High Power Limiter
Package Style	Connectorized

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Connector 1
Connector 2
Connector Option

SMA Male
SMA Female
Field Replaceable

Environmental Specifications

Temperature

Operating Range
Storage Range

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

Humidity
Shock
Vibration
Altitude

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)

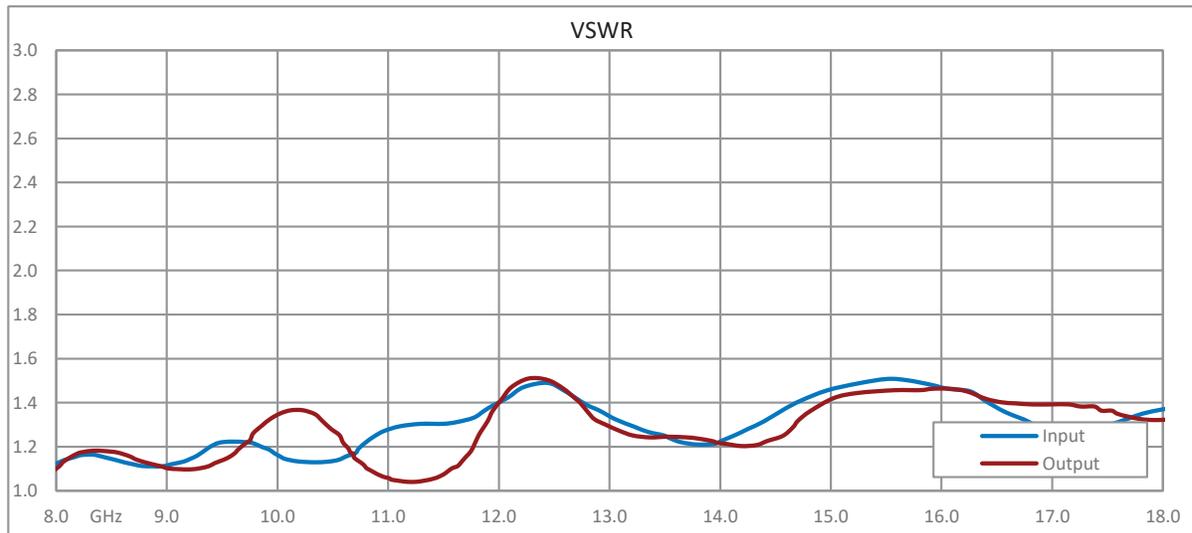
DFARS Compliant

01/12/2017

Plotted and Other Data

Notes:

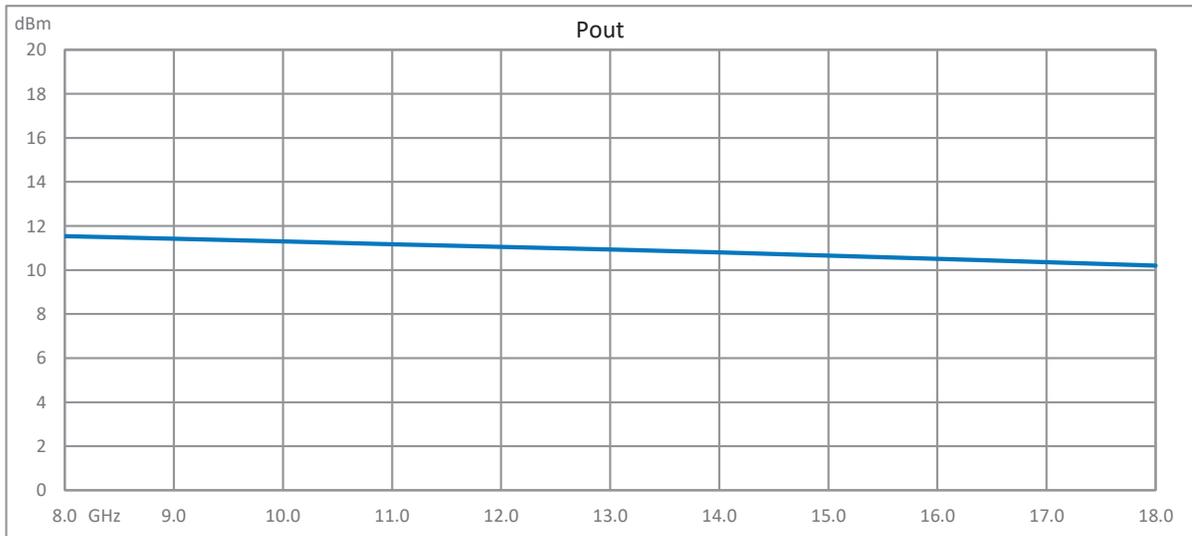
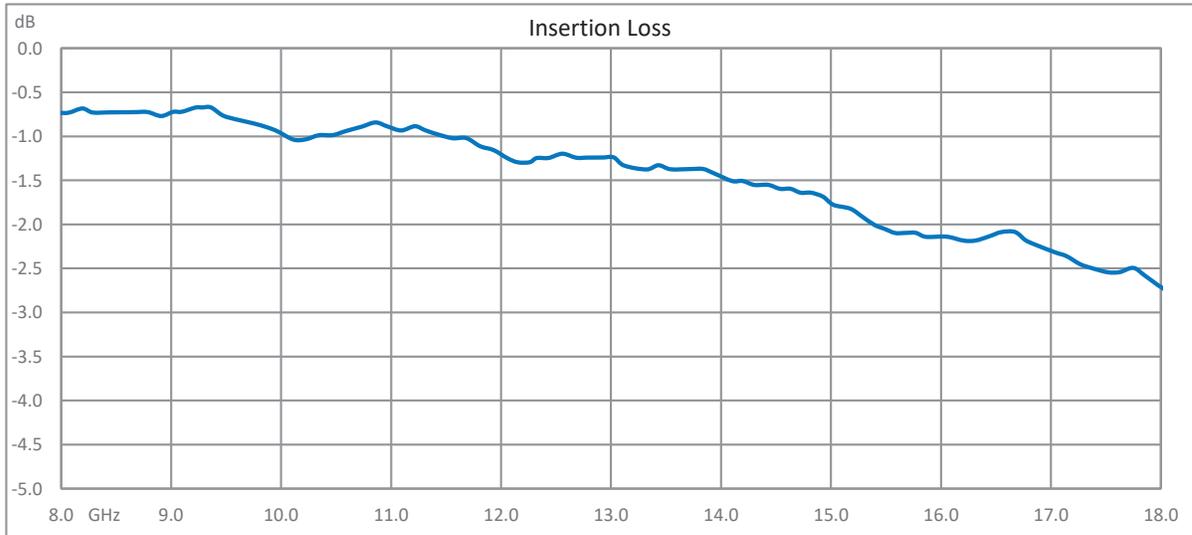
Typical Performance Data



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High Power Limiter, Field Replaceable SMA, 20W Peak Power, 15 us 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 99.4% availability and are part of the broadest selection in the industry.

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, 20W Peak Power, 15 us Recovery, 14 dBm Flat Leakage, 2 GHz to 18 GHz PE80L2006](#)

URL: <https://www.pasternack.com/high-power-limiter-field-replaceable-sma-100w-peak-power-15-us-recovery-14-dbm-flat-leakage-2-ghz-to-18-ghz-pe80l2006-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE80L2006 CAD Drawing

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