



### PE8022

#### **Features**

· SMA Connector Male

#### **Applications**

General Purpose Test

## **Description**

Pasternack ships all of our products, including the PE8022 high power broadband signal limiter same-day, internationally. This SMA series limiter has a maximum peak power of 100W at 1us pulse, 0.1% Duty Cycle and Pasternack aims to keep our product inventory consistently stocked. The 100W limiter has SMA male to SMA type connectors with a dense but rugged, thin-film construction. Pasternack's PE8022 high power high-power limiter features an impressive maximum insertion loss of 2.5 dB. The PE8022 SMA to SMA limiter has a typical recovery time of 20 nanoseconds.

Pasternack's PE8022100Wlimiterhasa2.5dBmaximuminsertionloss, and aminimum operational temperature range of -55 degrees Ctoamaximum of 90°C. PE8022 is a RF high power 100W at 1us pulse, 0.1% Duty Cycle limiter intended for use in space systems, VSAT, SATCOM, radar, and microwave radio applications. Our high-quality SMA to SMA limiters that we ship around the world, have a broadband frequency of 2 GHz – 18 GHz.

Download the high power 100W PE8022 PDF datasheet with specifications and CAD drawing with dimensions for detailed technical information. Our PE8022 has an average input power of 1 and a military-grade design. In fact, this 18 GHz 100W high-rel limiter meets the US Department of Defense environmental test methods for humidity of and vibration of 20G, 100 to 2000Hz. Get in touch with Pasternack's expert technical support for assistance with the high power 100W PE8022 broadband limiter. Founded in 1972, Pasternack has continued to meet the needs of its customers providing 2 (GHz) – 18 (GHz) high power limiters as well as a plethora of other electronic components.

Pasternack's knowledgeable sales team simplifies the checkout process and certifies that your 2 GHz – 18 GHz 1 average input power high-reliability broadband limiter will be exact to spec. PE8022 has a max leakage of 18 dBm and is part of our vast inventory of electronic products. This SMA male to SMA limiter is ready for purchase and ships anywhere in the world. Order your high power 100W limiter online today—there is no minimum order quantity and we provide same day shipping.

#### **Electrical Specifications**

Internal DC Return

Description	Min	Тур	Max	Unit
Frequency Range	2		18	GHz
Insertion Loss			2.5	dB
Input VSWR		2.2:1		
Output VSWR		2.2:1		
Leakage (CW)			+18	dBm
Recovery Time*		20		ns
Input Power (CW)			1	Watt
Input Power (Peak)			100	Watt
@1us pulse, 0.1% Duty Cycle				
Derated to 20% @ +125°C				
Limiting Threshold		+12		dBm





## PE8022

**Electrical Specification Notes:** 

Values at 25°C, sea level. Specification @ +25°C and -10 dBm input power.

#### **Mechanical Specifications**

Size

 Length
 1.21 in [30.73 mm]

 Width
 0.31 in [7.87 mm]

 Height
 0.31 in [7.87 mm]

 Weight
 0.023 lbs [10.43 g]

Body Material and Plating Passivated Stainless Steel

Configuration

Style PIN-PIN High Power Limiter
Package Style Connectorized Module
Impedance 50 Ohms
Connector 1 SMA Male
Connector 2 SMA Female

## **Environmental Specifications**

**Temperature** 

 Operating Range
 -55 to +90 deg C

 Storage Range
 -65 to +125 deg C

 Shock
 50 G's, 11 msec

 Vibration
 20G, 100 to 2000Hz

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

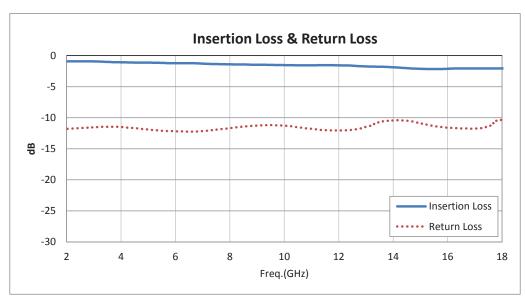
Values at 25°C, sea level.

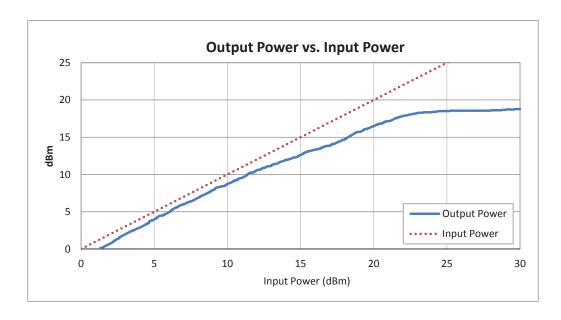




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#### **Typical Performance Data**









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High Power Limiter, SMA, 100W Peak Power, 20 ns Recovery, 18 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, SMA, 100W Peak Power, 20 ns Recovery, 18 dBm Flat Leakage, 2 GHz to 18 GHz PE8022

URL: https://www.pasternack.com/high-power-limiter-sma-100w-peak-power-20-ns-recovery-18-dbm-flat-leakage-2-ghz-to-18-ghz-pe8022-p.aspx

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# PE8022 CAD Drawing

High Power Limiter, SMA, 100W Peak Power, 20 ns Recovery, 18 dBm Flat Leakage, 2 GHz to 18 GHz

