

# Isolator With 18 dB Isolation From 2 GHz to 4 GHz, 1 Watt And SMA Female



Microwave Radio Systems

#### **Isolators Technical Data Sheet**

PE8301

#### **Features**

- 2 to 4 GHz Frequency Range
- Max Forward and Reverse Power 1 Watt CW
- Insertion Loss 0.6 dB

- VSWR < 1.3:1</li>
- Isolation > 18 dB
- SMA Female Connectors

### **Applications**

- Radar Systems
- Military
- Wireless Radio Systems
- Telecom Infrastructure
- Communication Systems
- R&D Labs

#### Description

The PE8301 is a single junction isolator offering a forward and reverse power rating of 1 Watt CW over an operational frequency band of 2 to 4 GHz. This coaxial isolator uses SMA female connectors on all ports and has a minimum of 18 dB isolation.

Pasternack offers a wide variety of isolators to fit your needs. These are two-port devices that transmit microwave or radio frequency power in one direction only and block the signal in the opposite direction. They can be thought of as a diode for RF energy. Isolators are used to isolate equipment from the effects of conditions outside of the equipment. For instance they are used to prevent a microwave source being detuned by a mismatched load. Pasternack's isolators feature excellent insertion loss, high isolation and reliability.

#### **Electrical Specifications**

Minimum	Typical	Maximum	Units
2		4	GHz
	50		Ohms
	0.6		dB
18			dB
		1.3:1	
		1	Watts
		1	Watts
	2	2 50 0.6	2 4 50 0.6

Electrical Specification Notes: Values at 25°C, sea level.

#### **Mechanical Specifications**

Size

 Length
 1.6 in [40.64 mm]

 Width
 1.6 in [40.64 mm]

 Height
 0.6 in [15.24 mm]

 Weight
 0.2 lbs [90.72 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Isolator With 18 dB Isolation From 2 GHz to 4 GHz, 1 Watt And SMA Female PE8301

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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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Configuration

Design Single Junction

Direction 1 to 2

Package Style Connectorized Connector 1 SMA Female Connector 2 SMA Female

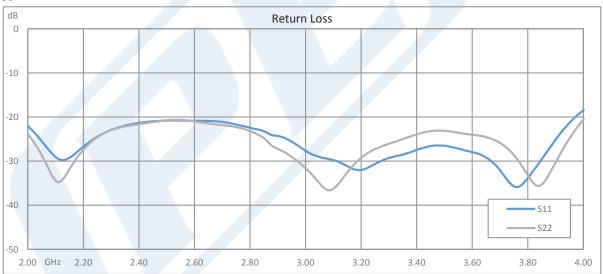
#### **Environmental Specifications**

Compliance Certifications (see product page for current document)

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

Notes:

#### **Typical Performance Data**



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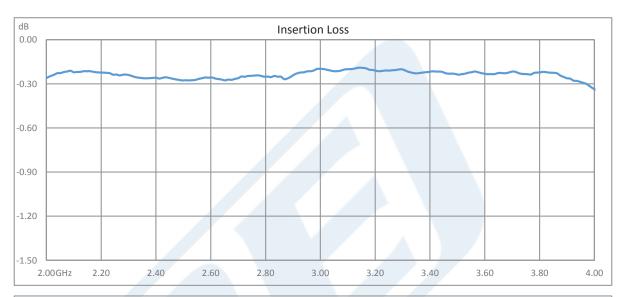


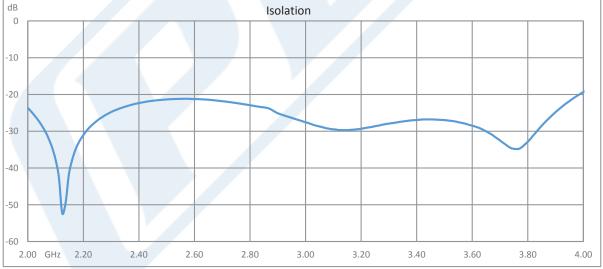
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PE8301 REV 1.1





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Isolator With 18 dB Isolation From 2 GHz to 4 GHz, 1 Watt And SMA Female 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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URL: https://www.pasternack.com/50-ohm-sma-isolator-2000-mhz-4000-mhz-20-watts-18-db-pe8301-p.aspx

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.

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**PE8301 CAD Drawing**Isolator With 18 dB Isolation From 2 GHz to 4 GHz, 1 Watt And SMA Female

