

Isolator With 20 dB Isolation From 27 GHz to 31 GHz, 5 Watts And 2.92mm Female



# Isolators Technical Data Sheet PE8319

#### **Features**

- 27 to 31 GHz Frequency Range
- Max Forward Power 5 Watts CW
- Max Reverse Power 2 Watts CW
- Insertion Loss < 0.6 dB

#### **Applications**

- Radar Systems
- Military
- Wireless Radio Systems

- VSWR < 1.25:1
- Isolation > 20 dB
- 2.92mm Female Connectors
- Telecom Infrastructure
- Communication Systems
- R&D Labs

Microwave Radio Systems

#### Description

The PE8319 is a single junction isolator offering a forward power rating of 5 Watts CW and reverse power rating of 2 Watts CW over an operational frequency band of 27 to 31 GHz. This coaxial isolator uses 2.92mm female connectors on all ports and has a minimum of 20 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**

Description	Minimum	Typical	Maximum	Units
Frequency Range	27		31	GHz
Impedance		50		Ohms
Insertion Loss			0.6	dB
Isolation	20			dB
VSWR			1.25:1	
Forward Power, CW			5	Watts
Forward Power, Peak			30	Watts
Reverse Power, CW			2	Watts

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Isolator With 20 dB Isolation From 27 GHz to 31 GHz, 5 Watts And 2.92mm Female PE8319

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

ISO 9001 : 2008 Registered

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### PE8319

Mechanical	Specifications
Size	-
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Length	0.5 in [12.7 mm]
Width	0.7 in [17.78 mm]
Height	0.5 in [12.7 mm]
Weight	0.05 lbs [22.68 g]

Configuration
Design
Package Style
Connector 1
Connector 2

**Single Junction** Connectorized 2.92mm Female 2.92mm Female

#### **Environmental Specifications**

Temperature **Operating Range** 

-20 to +65 deg C

Compliance Certifications (see product page for current document)

## **Plotted and Other Data**

Notes:

Isolator With 20 dB Isolation From 27 GHz to 31 GHz, 5 Watts And 2.92mm 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Isolator With 20 dB Isolation From 27 GHz to 31 GHz, 5 Watts And 2.92mm Female PE8319

URL: https://www.pasternack.com/50-ohm-2.92mm-isolator-27-31-ghz-5-watts-20-db-pe8319-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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PE8319 CAD Drawing Isolator With 20 dB Isolation From 27 GHz to 31 GHz, 5 Watts And 2.92mm Female

