

## High Power Isolator With 18 dB Isolation From 698 MHz to 960 MHz, 400 Watts And SMA Female

### PE8420



#### Features

- High Power
- 698 to 960 MHz Frequency Range
- Max Forward Power 400 Watts CW
- Max Reverse Power 30 Watts CW
- Insertion Loss < 0.35 dB
- VSWR < 1.3:1
- Isolation > 18 dB
- SMA Female Connectors

#### Applications

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

#### Description

The PE8420 is a high power single junction isolator offering a forward power rating of 400 Watts CW and reverse power rating of 30 Watts CW over an operational frequency band of 698 to 960 MHz. 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

Description	Min	Typ	Max	Units
Frequency Range	698		960	MHz
Impedance		50		Ohms
Insertion Loss			0.35	dB
Isolation	18			dB
VSWR			1.3:1	
Forward Power, CW			400	Watts
Reverse Power, CW			30	Watts

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

#### Mechanical Specifications

##### Size

Length	2 in [50.8 mm]
Width	1.75 in [44.45 mm]
Height	1.02 in [25.91 mm]
Weight	0.556 lbs [252.2 g]

##### Configuration

Design	Single Junction
Direction	1 to 2

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Package Style	Connectorized
Connector 1	SMA Female
Connector 2	SMA Female

#### Environmental Specifications

<b>Temperature</b>	
Operating Range	-20 to +70 deg C

**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

High Power Isolator With 18 dB Isolation From 698 MHz to 960 MHz, 400 Watts And SMA Female from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% 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 Isolator With 18 dB Isolation From 698 MHz to 960 MHz, 400 Watts And SMA Female PE8420](#)

URL: <https://www.pasternack.com/high-power-isolator-18db-isolation-960-mhz-400-watts-sma-female-pe8420-p.aspx>

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PE8420 CAD Drawing

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