

# High Power Isolator With 20 dB Isolation From 380 MHz to 460 MHz, 100 Watts And SMA Female



## Isolators Technical Data Sheet

PE8424

## **Features**

- · High Power
- 380 to 460 MHz Frequency Range
- Max Forward Power 100 Watts CW
- Max Reverse Power 30 Watts CW

- Insertion Loss < 0.35 dB</li>
- VSWR < 1.25:1</li>
- Isolation > 20 dB
- SMA Female Connectors

## **Applications**

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

Microwave Radio Systems

### **Description**

The PE8424 is a high power single junction isolator offering a forward power rating of 100 Watts CW and reverse power rating of 30 Watts CW over an operational frequency band of 380 to 460 MHz. This coaxial isolator uses SMA 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	380		460	MHz
Impedance		50		Ohms
Insertion Loss			0.35	dB
Isolation	20			dB
VSWR			1.25:1	
Forward Power, CW			100	Watts
Forward Power, Peak			1	KWatts
Reverse Power, CW			30	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: High Power Isolator With 20 dB Isolation From 380 MHz to 460 MHz, 100 Watts And SMA Female PE8424

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PF8424

#### **Mechanical Specifications**

Size

Length 2.5 in [63.5 mm] Width 2.5 in [63.5 mm] Height 1.02 in [25.91 mm] 1.02 lbs [462.66 g] Weight

Configuration

Single Junction Design

Direction 1 to 2

Connectorized Package Style Connector 1 **SMA Female SMA Female** Connector 2

**Environmental Specifications** 

**Temperature** 

Operating Range -20 to +70 deg C

Compliance Certifications (see product page for current document)

## Plotted and Other Data

Notes:

High Power Isolator With 20 dB Isolation From 380 MHz to 460 MHz, 100 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% 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 20 dB Isolation From 380 MHz to 460 MHz, 100 Watts And SMA Female PE8424

URL: https://www.pasternack.com/50-ohm-sma-isolator-380-460-mhz-1000-watts-20-db-pe8424-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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# PE8424 CAD Drawing

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