



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

## Isolators Technical Data Sheet

PE8425

### 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
- VSWR < 1.25:1
- Isolation > 20 dB
- N Female Connectors

### Applications

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

### Description

The PE8425 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 N 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 N Female PE8425](#)



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

## Isolators Technical Data Sheet

PE8425

### Mechanical Specifications

#### Size

Length	2.5 in [63.5 mm]
Width	2.5 in [63.5 mm]
Height	1.02 in [25.91 mm]
Weight	1.116 lbs [506.21 g]

#### Configuration

Design	Single Junction
Direction	1 to 2
Package Style	Connectorized
Connector 1	N Female
Connector 2	N Female

### 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 N 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.

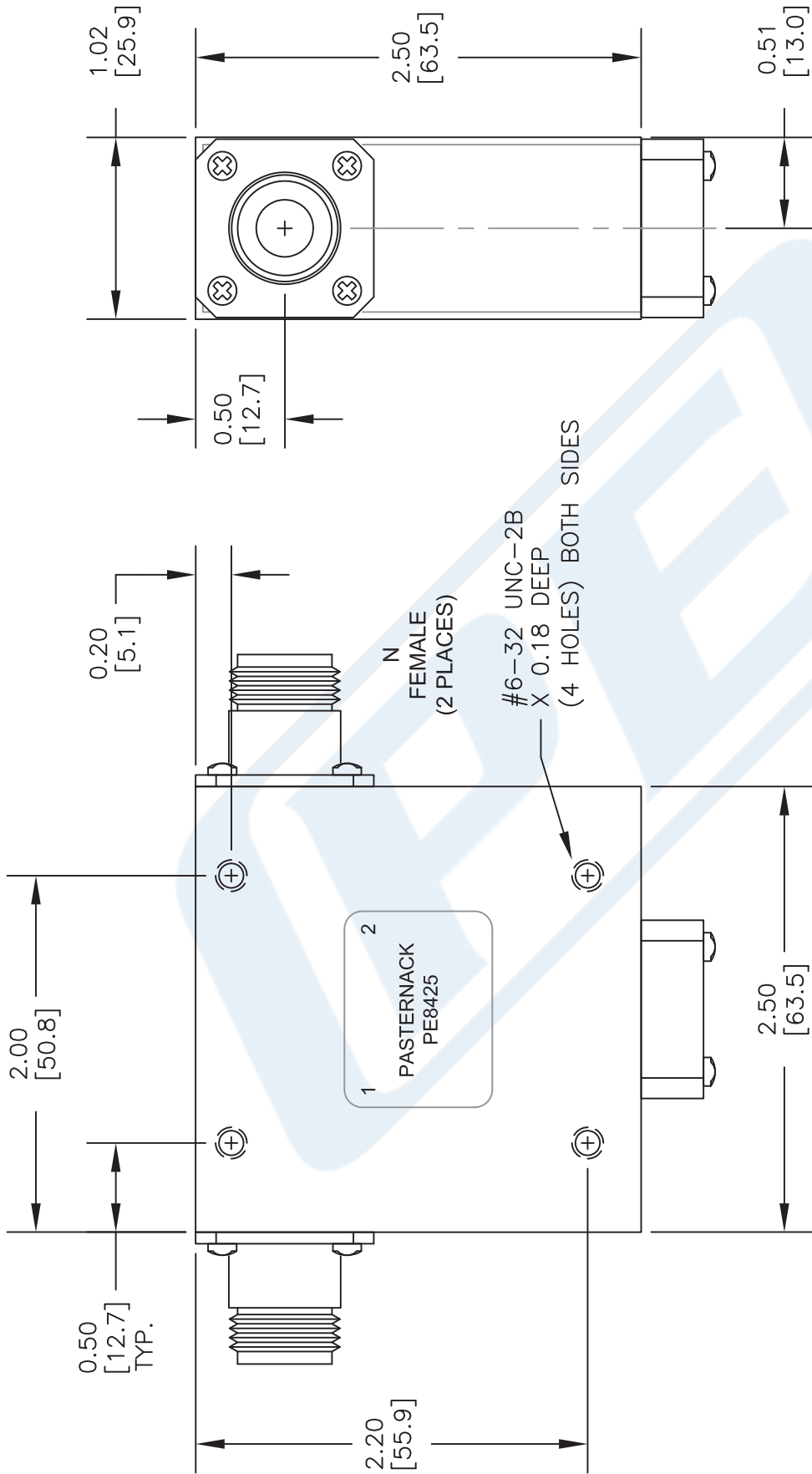
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [High Power Isolator With 20 dB Isolation From 380 MHz to 460 MHz, 100 Watts And N Female PE8425](#)

URL: <https://www.pasternack.com/50-ohm-n-isolator-380-460-mhz-1000-watts-20-db-pe8425-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.

# PE8425 CAD Drawing

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



**STANDARD TOLERANCES**  
.X ±0.2  
.XX ±0.1  
.XXX ±0.05

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

**NOTES:**  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE  
**PE8425**

FSCM NO. 53919

CAD FILE 080216

SCALE N/A

SIZE A

2233

**PE PASTERNAK**  
THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: www.pasternack.com | E-Mail: sales@pasternack.com