

# High Power Circulator With 18 dB Isolation From 698 MHz to 960 MHz, 1000 Watts And SMA Female



## Circulators Technical Data Sheet

PE8418

### **Features**

- High Power Single Junction Circulator
- 698 to 960 MHz Frequency Range
- Max Forward and Reverse Power 1,000W (CW)
- Insertion Loss < 0.35 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

Microwave Radio Systems

#### **Description**

Pasternack offers a wide variety of circulators to fit your needs. These unique devices enable two signals to use one channel. The classic use of this three port device is for the line/coax between an antenna and a transceiver, allowing the receive signal to come from the antenna (port 1) to the receiver (port 2) while the transmit signal goes from the transmitter (port 3) to the antenna (port 1). An isolator can be created by terminating one port into a matched load. These components can be used in antenna transmitting and receiving, radar, amplifier systems and anything that requires isolation from a signal reflection and the ability to send signals in opposite directions down a single channel. These circulators feature excellent insertion loss, high isolation and reliability.

The PE8418 is a high power single junction circulator that offers a power rating of 1,000 Watts (CW) in the forward and reverse direction over an operational frequency band of 698 to 960 MHz. Electrical performance includes 1.3:1 max VSWR, 18 dB min isolation, and 0.35 dB max insertion loss. The package interface uses SMA female connectors, and is also REACH and RoHS compliant.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	698		960	MHz
Impedance		50		Ohms
Insertion Loss			0.35	dB
Isolation	18			dB
VSWR			1.3:1	
Forward Power, CW			1	KWatts
Reverse Power, CW			1	KWatts

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 Circulator With 18 dB Isolation From 698 MHz to 960 MHz, 1000 Watts And SMA Female PE8418

ISO 9001 : 2008 Registered

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### **Mechanical Specifications**

Size

 Length
 1.75 in [44.45 mm]

 Width
 2 in [50.8 mm]

 Height
 1.02 in [25.91 mm]

 Weight
 0.55 lbs [249.48 g]

Configuration

Design Single Junction
Package Style Connectorized
Connector 1 SMA Female
Connector 2 SMA Female
Connector 3 SMA Female

**Environmental Specifications** 

**Temperature** 

Operating Range -20 to +70 deg C

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant

REACH Compliant 12/17/2015

**Plotted and Other Data** 

Notes:

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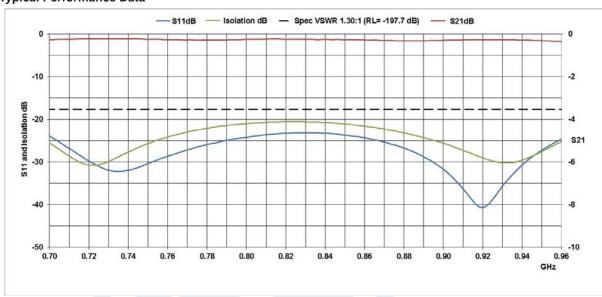
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#### **Typical Performance Data**



High Power Circulator With 18 dB Isolation From 698 MHz to 960 MHz, 1000 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.

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URL: http://www.pasternack.com/50-ohm-sma-circulator-698-960-mhz-1000-watts-18-db-pe8418-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.



## PE8418 CAD Drawing

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