

## Circulator with 18 dB Isolation from 700 MHz to 800 MHz, 10 Watts and SMA Female



### **Circulators Technical Data Sheet**

### PE83CR001

### **Features**

- Single Junction Circulator
- 700 to 800 MHz Frequency Range
- Max Forward Power 10W (CW)
- Insertion Loss 0.5 dB Typ

- VSWR < 1.25:1</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 carries a broad selection of circulators to fit your needs. These unique devices allow two different direction signals to share the same channel. The classic use of this three port device is for routing signals between an antenna and a transceiver, allowing the receive signal to enter from the antenna (port 1) and exit to the receiver (port 2) while the transmit signal enters from the transmitter (port 3) and exits to the antenna (port 1). The circulator can also be used as an isolator by placing a matched load into one of the ports. These components can be used in antenna transmitting and receiving, radar, amplifier systems and any application 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 PE83CR001 is a single junction circulator that operates from 700 to 800 MHz and can handle up to 10 Watts (CW) in the forward direction. The coaxial part uses SMA female connectors on all ports and has electrical specifications of 18 dB min isolation, 0.5 dB typ insertion loss and 1.25:1 max VSWR. The package is RoHS compliant.

### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	700		800	MHz
Impedance		50		Ohms
Insertion Loss		0.5		dB
Isolation	18			dB
VSWR			1.25:1	
Forward Power, CW			10	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: Circulator with 18 dB Isolation from 700 MHz to 800 MHz, 10 Watts and SMA Female PE83CR001

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PE83CR001

### **Mechanical Specifications**

Size

 Length
 1.26 in [32 mm]

 Width
 0.71 in [18.03 mm]

 Height
 1.34 in [34.04 mm]

Body Material and Plating Aluminum

Configuration

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

### **Environmental Specifications**

Compliance Certifications (see product page for current document)

#### Plotted and Other Data

Notes:

Circulator with 18 dB Isolation from 700 MHz to 800 MHz, 10 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.

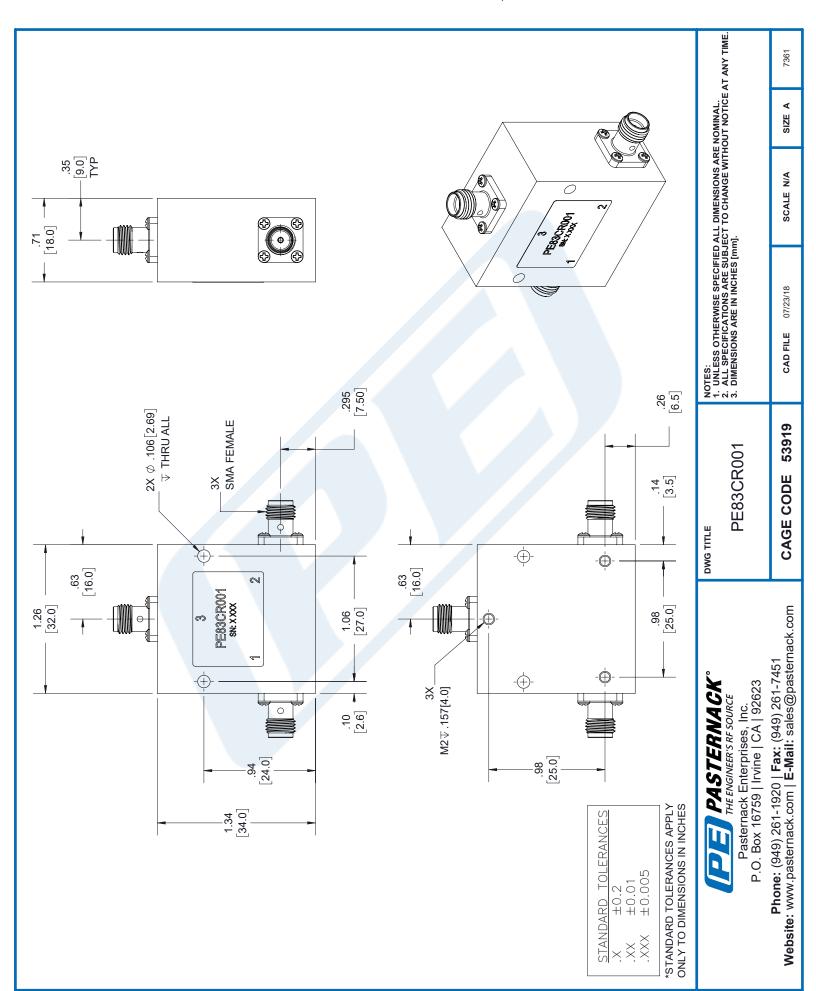
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URL: https://www.pasternack.com/circulator-18db-isolation-800-mhz-10-watts-sma-female-pe83cr001-p.aspx

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**PE83CR001 CAD Drawing**Circulator with 18 dB Isolation from 700 MHz to 800 MHz, 10 Watts and SMA Female



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