

Circulator with 18 dB Isolation from 8 GHz to 12 GHz, 10 Watts and SMA Female



Microwave Radio Systems

Circulators Technical Data Sheet

PE83CR1026

Features

- · Forward/Reverse Power 10 watts
- Wide-Band Operating Frequency Range of 8 to 12 GHz
- · Female SMA Connectors

- Low VSWR of 1.50:1 Max
- · Low Insertion Loss of 0.6 dB
- · Good Isolation Performance of 18 dB Minimum

Applications

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

Description

The PE83CR1026 is an RF circulator offering a forward and reverse power rating of 10 watts over an operational frequency band of 8 to 12 GHz. This coaxial part uses SMA female connectors on all ports and has a minimum of 18 dB of isolation.

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 circulator 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	8		12	GHz
Impedance		50		Ohms
Insertion Loss			0.6	dB
Isolation	18			dB
VSWR			1.5:1	
Forward Power, CW			10	Watts

Mechanical Specifications

Size

 Length
 0.47 in [11.94 mm]

 Width
 0.47 in [11.94 mm]

 Height
 0.71 in [18.03 mm]

 Weight
 0.044 lbs [19.96 g]

 Body Material and Plating
 Aluminum, Nickel

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 8 GHz to 12 GHz, 10 Watts and SMA Female PE83CR1026

ISO 9001 : 2008 Registered



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Configuration

Design Single Junction
Direction Counter-Clockwise
Connector 1 SMA Female
Connector 2 SMA Female
Connector 3 SMA Female

Environmental Specifications

Temperature

Operating Range -20 to 70 deg C Storage Range -55 to 125 deg C

Humidity 100% RH at 35c Shock 20G for 11msec Vibration 25g RMS

Altitude 30,000 ft. (Epoxy Sealed Controlled environment)

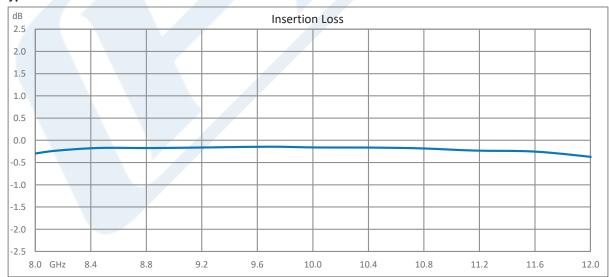
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

· Values at 25°C, sea level.

Typical Performance Data



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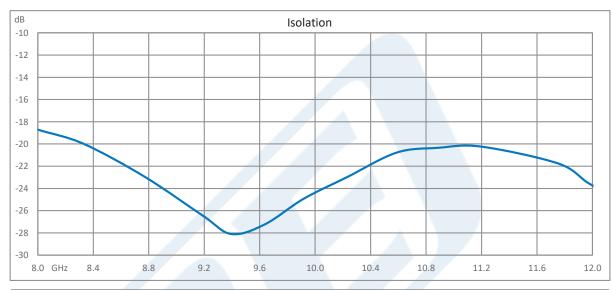


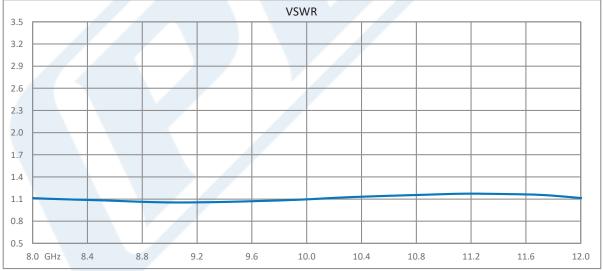
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Circulator with 18 dB Isolation from 8 GHz to 12 GHz, 10 Watts and SMA Female from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/circulator-18db-isolation-12-ghz-10-watts-sma-female-pe83cr1026-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.



PE83CR1026 CAD DrawingCirculator with 18 dB Isolation from 8 GHz to 12 GHz, 10 Watts and SMA Female

