

High Power Circulator With 20 dB Isolation From 2 GHz to 4 GHz, 50 Watts And N Female



Circulators Technical Data Sheet

PE83CR1005

Features

- Forward/Reverse Power 50 watts
- Frequency Range of 2 to 4 GHz

- Female N Connectors
- Low VSWR

Applications

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

Microwave Radio Systems

Description

The PE83CR1005 is a high power circulator offering a forward and reverse power rating of 50 watts over an operational frequency band of 2 to 4 GHz. This coaxial part uses N female connectors on all ports and has a minimum of 20 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 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2		4	GHz
Impedance		50		Ohms
Insertion Loss			0.6	dB
Isolation	20			dB
VSWR			1.3:1	
Forward Power, CW			50	Watts
Forward Power, Peak			100	Watts
Reverse Power, CW			50	Watts

Electrical Specification Notes: Values at 25°C, sea level.

Mechanical Specifications

Size

 Length
 1.6 in [40.64 mm]

 Width
 0.6 in [15.24 mm]

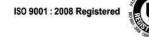
 Height
 1.6 in [40.64 mm]

 Weight
 0.27 lbs [122.47 g]

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 20 dB Isolation From 2 GHz to 4 GHz, 50 Watts And N Female PE83CR1005

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

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Configuration

Design Single Junction N Female Connector 1 N Female Connector 2 Connector 3 N Female

Environmental Specifications

Temperature

0 to +50 deg C Operating Range

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

RoHS Compliant

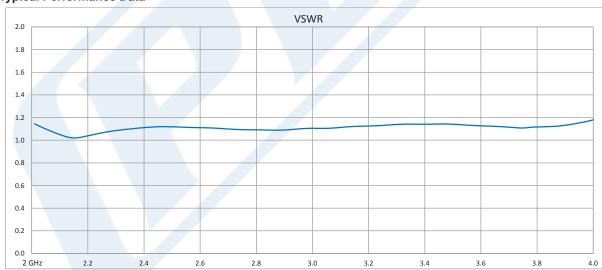
REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

Typical Performance Data



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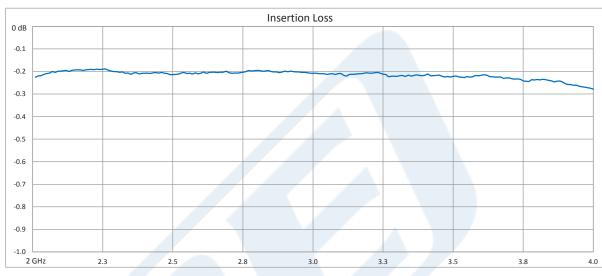


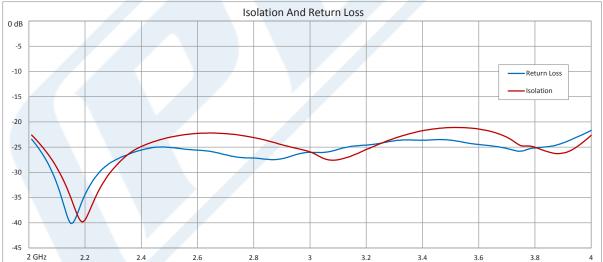
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High Power Circulator With 20 dB Isolation From 2 GHz to 4 GHz, 50 Watts And N Female from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/high-power-circulator-20db-isolation-4-ghz-50-watts-n-female-pe83cr1005-p.aspx

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PE83CR1005 CAD Drawing

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