

Circulator with 19 dB Isolation from 800 MHz to 960 MHz, 10 Watts and SMA Female



Circulators Technical Data Sheet

PE83CR007

Features

- Single Junction Circulator
- 800 to 960 MHz Frequency Range
- Max Forward Power 10W (CW)
- Insertion Loss 0.75 dB max

- VSWR 1.25:1 max
- Isolation 19 dB min
- 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 PE83CR007 is a single junction circulator that operates from 800 to 960 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 1.25:1 max VSWR, 19 dB min isolation and 0.75 dB max insertion loss. The package is RoHS compliant.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	800		960	MHz
Impedance		50		Ohms
Insertion Loss			0.75	dB
Isolation	19			dB
VSWR			1.25:1	
Forward Power, CW			10	Watts

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

Mechanical Specifications

Size

 Length
 0.98 in [24.89 mm]

 Width
 0.57 in [14.48 mm]

 Height
 1.06 in [26.92 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Circulator with 19 dB Isolation from 800 MHz to 960 MHz, 10 Watts and SMA Female PE83CR007

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Configuration

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

Environmental Specifications

Temperature

Operating Range -25 to +80 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

Circulator with 19 dB Isolation from 800 MHz to 960 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-19db-isolation-960-mhz-10-watts-sma-female-pe83cr007-p.aspx

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PE83CR007 CAD DrawingCirculator with 19 dB Isolation from 800 MHz to 960 MHz, 10 Watts and SMA Female

