



WR-112 Waveguide Circulator, 7.05 GHz to 10 GHz,
 18 dB min Isolation, Cover Flange, Aluminum

Waveguide Circulators Technical Data Sheet

PEWCR1000

Features

- Waveguide Circulator
- WR-112
- Full H Band Frequency Range 7.05 to 10 GHz
- Mates with UG-138/U Cover Flange
- 1.3:1 VSWR
- 18 dB isolation across the full band

Applications

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

Description

The PEWCR1000 is a Waveguide Circulator offering 18 dB minimum isolation over the full H band frequency range of 7.05 to 10 GHz. The design achieves high isolation with wide band performance and the WR-112 waveguide uses UG-138/U compatible cover flanges on all ports and has a power rating of 20 watts (CW).

Pasternack offers a wide variety of circulators and waveguide 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 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	7.05		10	GHz
VSWR			1.3:1	
Insertion Loss			0.4	dB
Isolation	18			dB
Forward Power (CW)			20	Watts
Input Power (Peak)			10	KWatts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-112 Waveguide Circulator, 7.05 GHz to 10 GHz, 18 dB min Isolation, Cover Flange, Aluminum PEWCR1000](#)



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Mechanical Specifications
Size

Waveguide Size	WR-112
Flange Designation	None
Flange Type	Cover
Flange Material and Plating	Aluminum, Chem Film

Environmental Specifications
Temperature

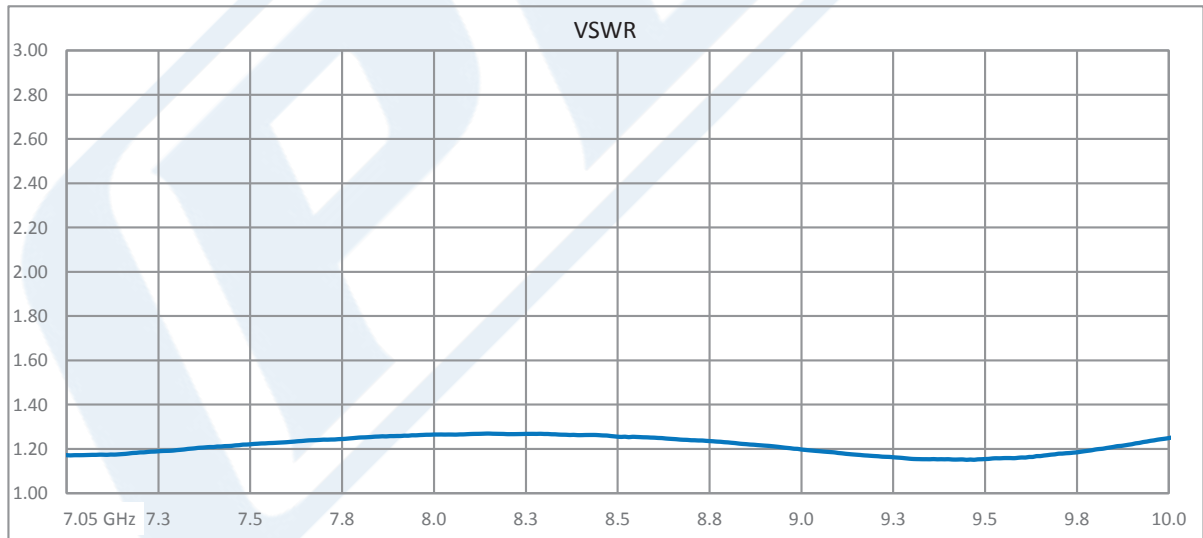
Operating Range	-10 to +65 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



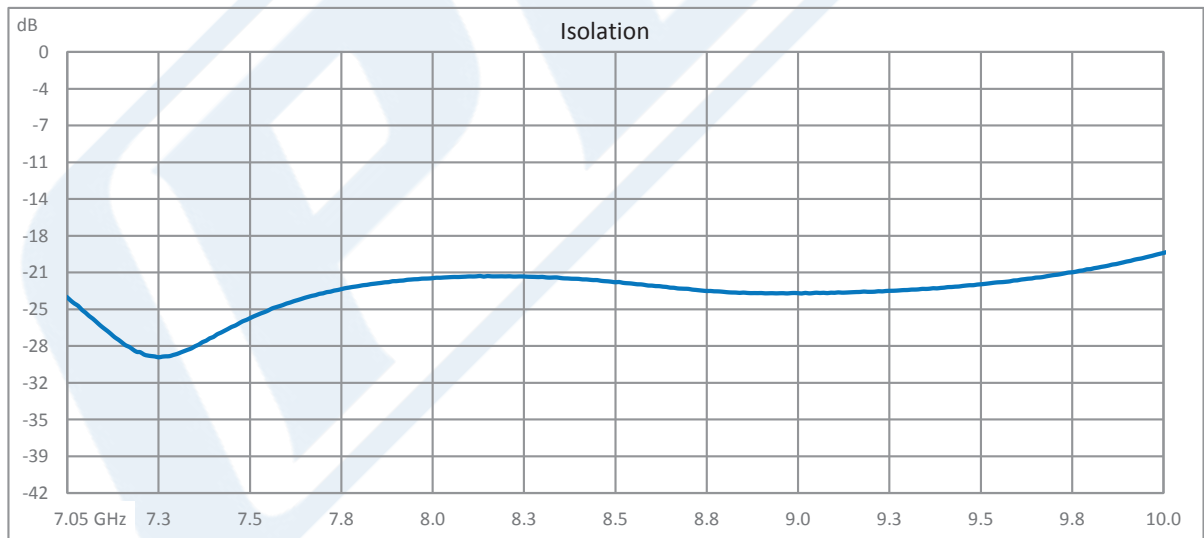
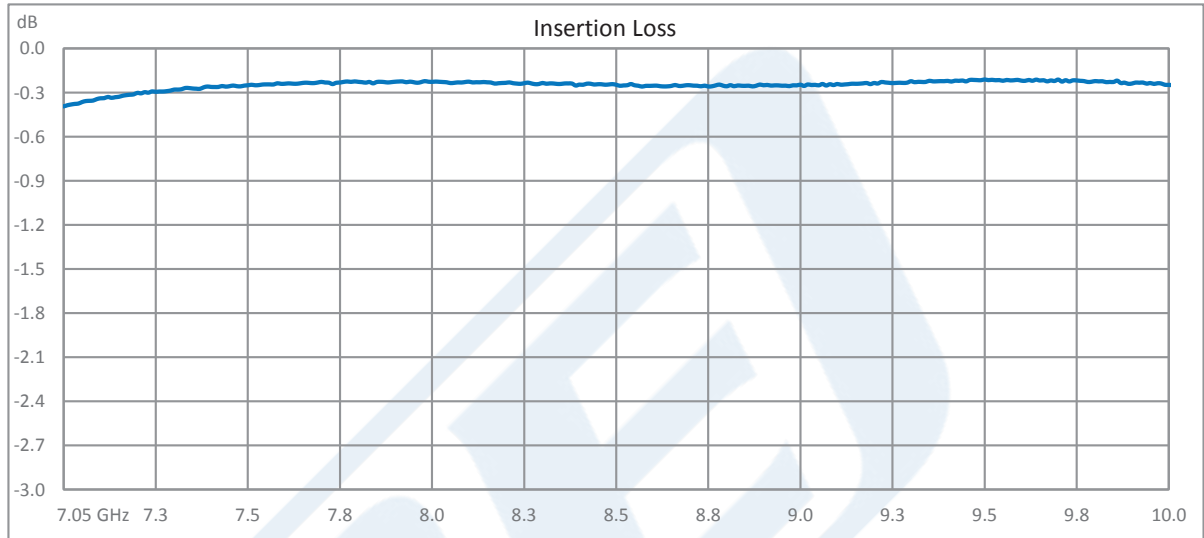
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WR-112 Waveguide Circulator, 7.05 GHz to 10 GHz, 18 dB min Isolation, Cover Flange, Aluminum from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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