



High Power Isolator With 16 dB Isolation From 8 GHz to 18 GHz, 50 Watts And SMA Female

Isolators Technical Data Sheet

PE83IR1010

Features

- Forward Power 50 watts
- Frequency Range of 8 to 18 GHz
- Female SMA Connectors
- Low VSWR

Applications

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

Description

The PE83IR1010 is a high power isolator offering a forward power rating of 50 watts over an operational frequency band of 8 to 18 GHz. This coaxial part uses SMA female connectors on all ports and has a minimum of 16 dB of isolation.

Pasternack Enterprises offers a wide variety of isolators to fit your needs. These are two-port devices that transmit microwave or radio frequency power in one direction only and block the signal in the opposite direction. They can be thought of as a diode for RF energy. Isolators are used to isolate equipment from the effects of conditions outside of the equipment. For instance they are used to prevent a microwave source being detuned by a mismatched load. Pasternack's isolators feature excellent insertion loss, high isolation and reliability.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	8		18	GHz
Impedance		50		Ohms
Insertion Loss			0.6	dB
Isolation	16			dB
VSWR			1.45:1	
Forward Power, CW			50	Watts
Reverse Power, CW			10	Watts

Mechanical Specifications

Size

Length	0.5 in [12.7 mm]
Width	0.56 in [14.22 mm]
Height	0.68 in [17.27 mm]
Weight	0.05 lbs [22.68 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 Isolator With 16 dB Isolation From 8 GHz to 18 GHz, 50 Watts And SMA Female PE83IR1010](#)



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Design	Single Junction
Direction	Clockwise
Package Style	Connectorized
Connector 1	SMA Female
Connector 2	SMA Female

Environmental Specifications

Temperature

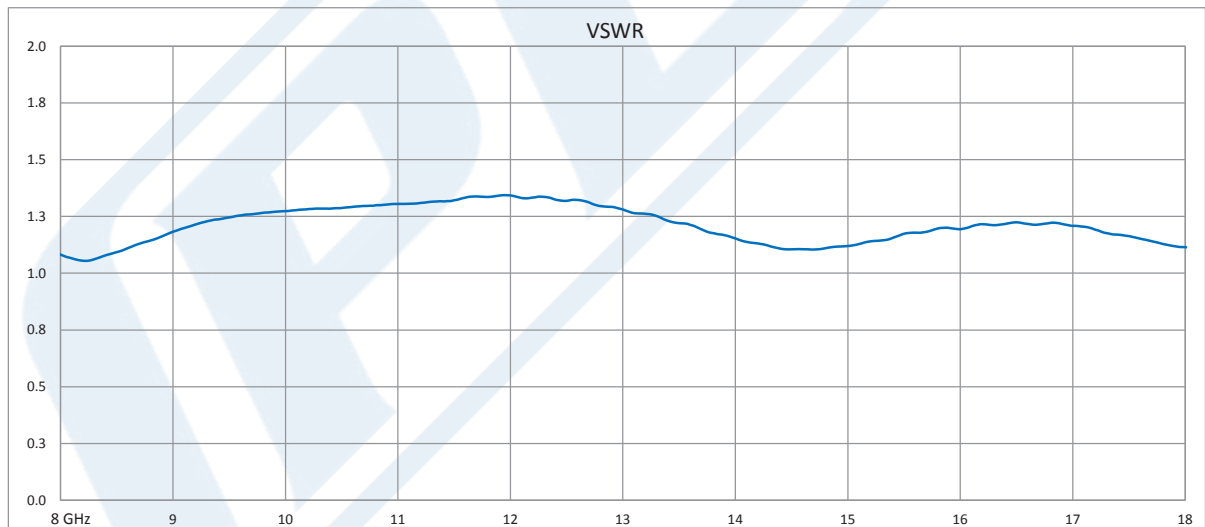
Operating Range +0 to +70 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



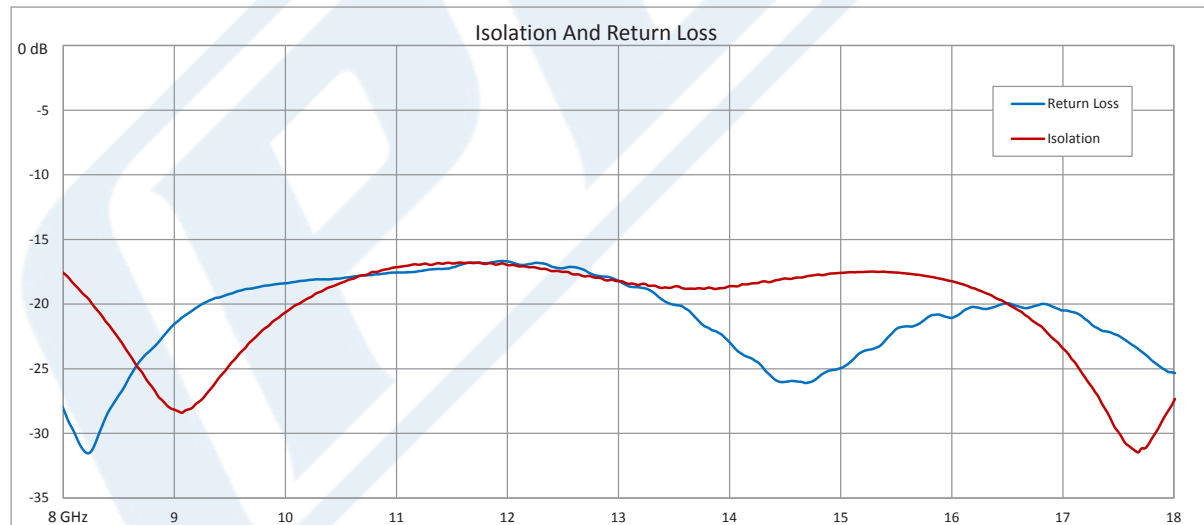
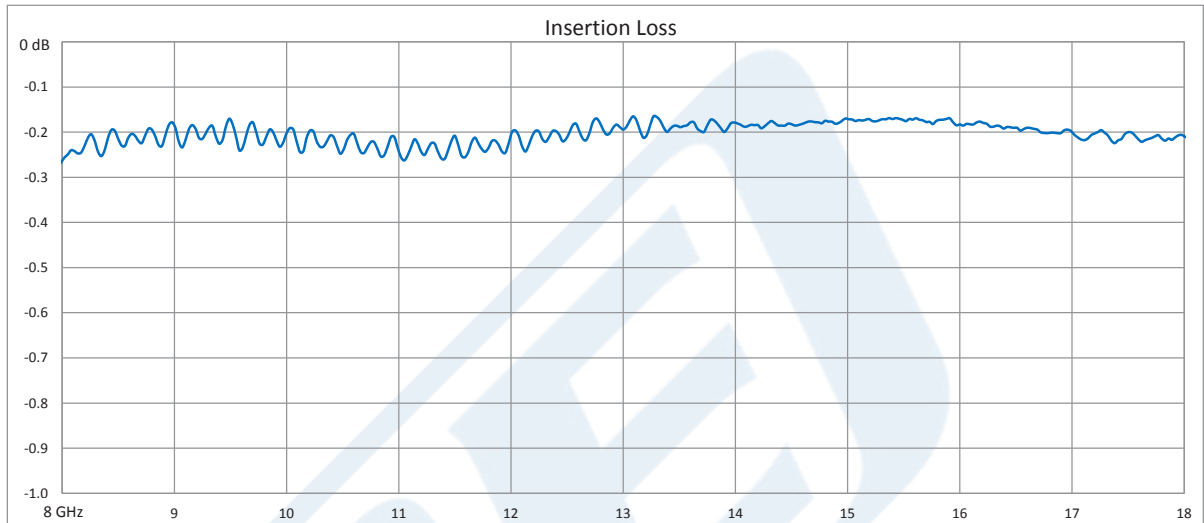
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