



# Couplers Technical Data Sheet PE2210-10

# Features • Directional Coupler • 2 to 8 GHz Frequency Range • Coupling 10±1 dB • Max Power 50 Watts (CW) Applications • Test and Measurement • Military Communications • Wireless Communications • Wireless Communications

#### Description

Directional couplers are indispensable components for isolating, separating and combining signals. For example, they provide a simple way of sampling microwave signals. They also can make accurate attenuator measurements since reflections are eliminated. The PE2210-10 is a 10 dB directional coupler that operates from 2 to 8 GHz and can handle up to 50 Watts (CW) with 20 dB directivity minimum and 1.25:1 VSWR maximum. The package interface uses SMA female connectors, and is also REACH and RoHS compliant.

The PE2210-10 is part of Pasternack's family of directional/dual-directional couplers that offer coupling ratios up to 50 dB with excellent performance featuring high directivity, low insertion loss and VSWR. They are available in both narrow and broad bandwidths and can be used in a wide variety of applications including signal sampling, VSWR measurements, power combining and distribution.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	2		8	GHz
Impedance		50		Ohms
Coupling		10 ±1		dB
Frequency Sensitivity		±0.5		dB
Main Line Loss		1		dB
Insertion Loss		0.35		dB
Directivity	20			dB
Main Line VSWR			1.25:1	
Secondary Line VSWR			1.25:1	
Input Power (CW)			50	Watts
Reverse Power (CW)			2	Watts
Input Power (Peak)			3	KWatts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Directional 10 dB SMA Coupler From 2 GHz to 8 GHz Rated to 50 Watts PE2210-10

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

Sales@Pasternack.com • Techsupport@Pasternack.com





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Electrical Specification Notes: Values at 25°C, sea level. Coupling tolerance includes frequency sensitivity. Main line loss is the difference in power level between input and output. Insertion loss excludes coupled power from main line loss. Max input power rated for load VSWR better than 1.22:1.

#### Mechanical Specifications

Size Length Width/Dia. Height Weight

#### Configuration

Package Type Input Connector Output Connector Coupled Connectors 1.78 in [45.21 mm] 0.38 in [9.65 mm] 1.19 in [30.23 mm] 0.082 lbs [37.19 g]

Connectorized SMA Female SMA Female SMA Female

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

RoHS Compliant REACH Compliant

12/17/2015

#### Plotted and Other Data

Notes:

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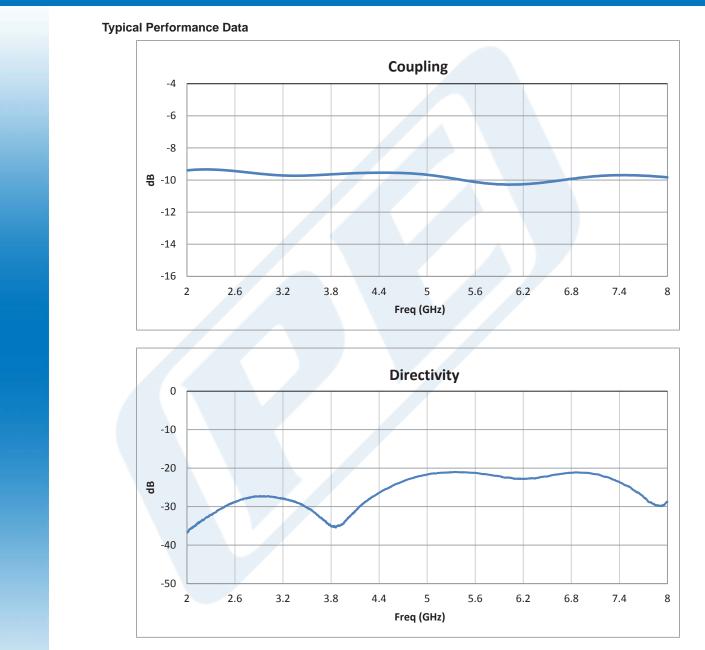
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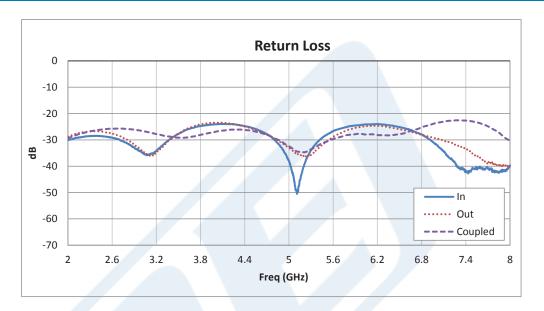


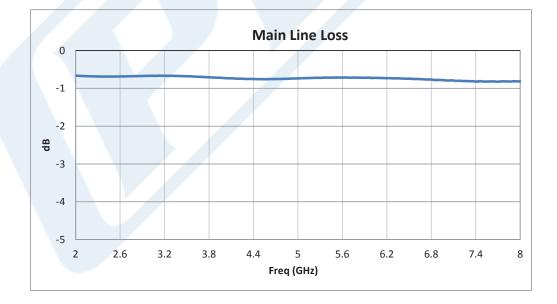
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### PE2210-10

Directional 10 dB SMA Coupler From 2 GHz to 8 GHz Rated to 50 Watts 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/directional-10-db-sma-coupler-2-8-ghz-50-watts-pe2210-10-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.

# PE2210-10 CAD Drawing

Directional 10 dB SMA Coupler From 2 GHz to 8 GHz Rated to 50 Watts

