



Couplers Technical Data Sheet PE2205-30

Features • Directional Coupler • 7 to 12.4 GHz Frequency Range • Coupling 30±1 dB • Test and Measurement • Military 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 PE2205-30 is a 30 dB directional coupler that operates from 7 to 12.4 GHz and can handle up to 50 Watts (CW) with 17 dB directivity minimum and 1.3:1 VSWR maximum. The package interface uses SMA female connectors, and is also REACH and RoHS compliant.

The PE2205-30 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	7		12.4	GHz
Impedance		50		Ohms
Coupling		30 ±1		dB
Frequency Sensitivity		±0.5		dB
Main Line Loss		0.3		dB
Directivity	17			dB
Main Line VSWR			1.3:1	
Secondary Line VSWR			1.3:1	
Input Power (CW)			50	Watts
Reverse Power (CW)			50	Watts
Input Power (Peak)			3	KWatts

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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Directional 30 dB SMA Coupler From 7 GHz to 12.4 GHz Rated to 50 Watts PE2205-30

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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Mechanical Specifications Size		
Length Width/Dia. Height	1 in [25.4 mm] 0.38 in [9.65 mm] 1.05 in [26.67 mm]	
Weight	0.055 lbs [24.95 g]	
Configuration Package Type Input Connector Output Connector Coupled Connectors	Connectorized SMA Female SMA Female SMA Female	
Compliance Certifications (visit www.Pasternack.com for cur RoHS Compliant	rrent document)	
REACH Compliant	12/17/2015	
Plotted and Other Data Notes:		

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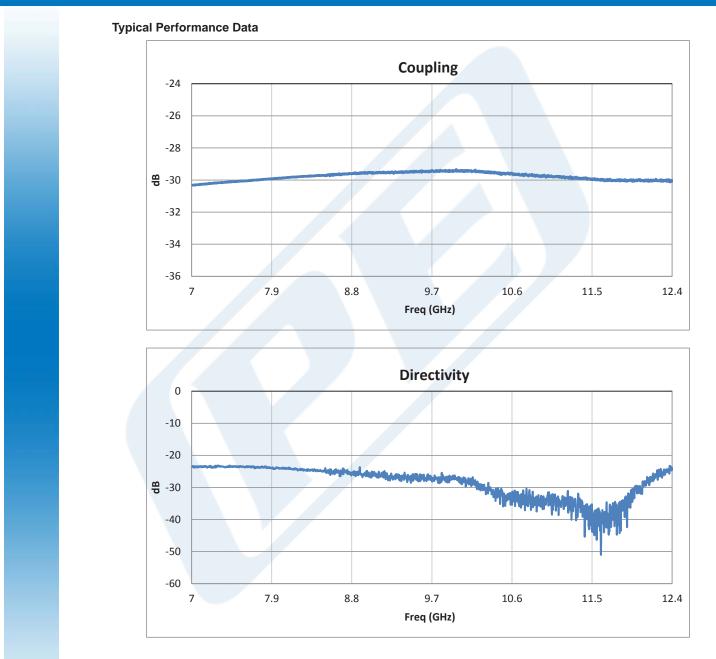
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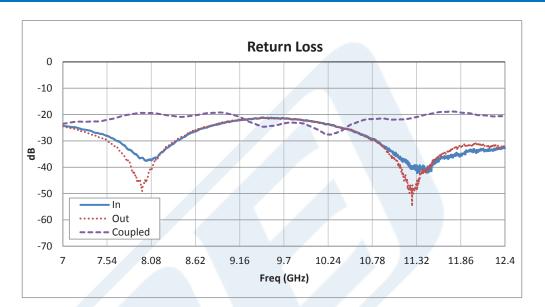


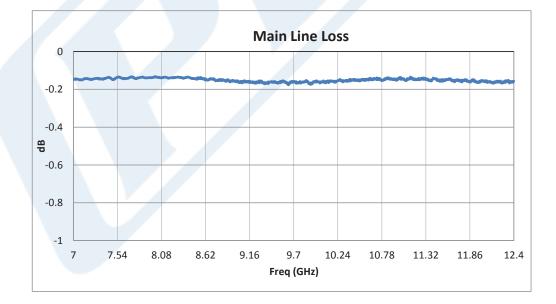
-30 dB PASTENACK PE2206-30 OUT 1628

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Directional 30 dB SMA Coupler From 7 GHz to 12.4 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-30-db-sma-coupler-7-12.4-ghz-50-watts-pe2205-30-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.

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PE2205-30 CAD Drawing

Directional 30 dB SMA Coupler From 7 GHz to 12.4 GHz Rated to 50 Watts

