

Directional 10 dB SMA Coupler From 7.5 GHz to 16 GHz Rated to 50 Watts



Couplers Technical Data Sheet PE2206-10 **Features** Directional Coupler Directivity > 12 dB 7.5 to 16 GHz Frequency Range

Coupling 10±1.25 dB

Applications

- Test and Measurement
- Military Communications

- VSWR < 1.4:1
- Max Power 50 Watts (CW)
- Commercial Communications
 - Wireless Communications
- SATCOM

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 PE2206-10 is a 10 dB directional coupler that operates from 7.5 to 16 GHz and can handle up to 50 Watts (CW) with 12 dB directivity minimum and 1.4:1 VSWR maximum. The package interface uses SMA female connectors, and is also REACH and RoHS compliant.

The PE2206-10 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	7.5		16	GHz
Impedance		50		Ohms
Coupling		10 ±1.25		dB
Frequency Sensitivity			±0.75	dB
Main Line Loss			1	dB
Insertion Loss			0.6	dB
Directivity	12			dB
Main Line VSWR			1.35:1	
Secondary Line VSWR			1.4:1	
Input Power (CW)			50	Watts
Reverse Power (CW)			5	Watts

Electrical Specification Notes: Values at 25°C, sea level. 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 1.20:1.

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 7.5 GHz to 16 GHz Rated to 50 Watts PE2206-10

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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Mechanical Specifications

Size Length Width/Dia. Height Weight

Configuration

Package Type Input Connector Output Connector Coupled Connectors

Environmental Specifications

Temperature Operating Range Storage Range

Humidity

Shock Vibration

Altitude Thermal Shock

1 in [25.4 mm] 0.38 in [9.65 mm] 1 in [25.4 mm] 0.041 lbs [18.6 g]

Connectorized SMA Female SMA Female SMA Female

-25 to +80 deg C -55 to +150 deg C

MIL-STD-202, Method 106 (90% relative humidity, +65°C) MIL-STD-202, Method 213/I (100 G's, 6 ms) MIL-STD-202, Method 204/D (10 to 2,000 Hz, 20 G's, 12 hours) MIL-STD-202, Method 105/E (150,000 feet) MIL-STD-202, Method 107/B (-55°C to +85°C)

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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Directional 10 dB SMA Coupler From 7.5 GHz to 16 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-7.5-16-ghz-50-watts-pe2206-10-p.aspx

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PE2206-10 CAD Drawing Directional 10 dB SMA Coupler From 7.5 GHz to 16 GHz Rated to 50 Watts

