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Directional 16 dB SMA Coupler To 18 GHz Rated to 30 Watts

Couplers Technical Data Sheet

PE2243-16

Features

- Directional Coupler
- 0.5 to 18 GHz Frequency Range
- Coupling 16 ±1.25 dB

- Directivity 10 to 20 dB Typ.
- VSWR 1.22:1 to 1.67:1 Typ.
- Max Power 30 Watts (CW)

Applications

- Test and Measurement
- Military Communications
- 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 PE2243-16 is a 16 dB directional coupler that operates from 0.5 to 18 GHz and can handle up to 30 Watts (CW) with a typical directivity between 10 to 20 dB and VSWR between 1.22:1 to 1.67:1. The package interface uses SMA female connectors, and is also REACH and RoHS compliant.

The PE2243-16 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	0.5		18	GHz
Impedance		50		Ohms
Coupling		16 ±1.25		dB
Frequency Sensitivity		±1		dB
Input Power (CW)			30	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 16 dB SMA Coupler To 18 GHz Rated to 30 Watts PE2243-16

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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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.5 to 4	4 to 8	8 to 12.4	12.4 to 18		GHz
Insertion Loss, Typ	0.6	0.8	1.13	1.6		dB
Main Line VSWR, Typ	1.22:1	1.22:1	1.29:1	1.38:1		
Secondary Line VSWR, Typ	1.22:1	1.29:1	1.43:1	1.67:1		
Directivity, Typ	20	17	15	10		dB

Electrical Specification Notes:

Values at 25°C, sea level.

Coupling tolerance includes frequency sensitivity.

Max input power rated for load VSWR better than 1.22:1.

Mechanical Specifications

Size

 Length
 4.4 in [111.76 mm]

 Width/Dia.
 0.38 in [9.65 mm]

 Height
 1.11 in [28.19 mm]

 Weight
 0.143 lbs [64.86 g]

Configuration

Package TypeConnectorizedInput ConnectorSMA FemaleOutput ConnectorSMA FemaleCoupled ConnectorsSMA Female

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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PE2243-16 REV 1.1





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Directional 16 dB SMA Coupler To 18 GHz Rated to 30 Watts 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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URL: https://www.pasternack.com/directional-16-db-sma-coupler-18-ghz-pe2243-16-p.aspx

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PE2243-16 CAD Drawing

