

Directional 6 dB SMA Coupler From 1 GHz to 4 GHz Rated to 50 Watts



Couplers Technical Data Sheet

PE2CP005-6

Features

- · Directional Coupler
- 1 to 4 GHz Frequency Range
- · Coupling 6±1 dB

- Directivity > 20 dB
- VSWR < 1.2:1
- Max Power 50 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 PE2CP005-6 is a 6 dB directional coupler that operates from 1 to 4 GHz with 20 dB directivity minimum and 1.2:1 VSWR maximum. The package interface uses SMA female connectors, and is also RoHS compliant.

The PE2CP005-6 is part of Pasternack's family of directional/dual-directional couplers that offer coupling ratio 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	1		4	GHz
Impedance		50		Ohms
Coupling		6 ±1		dB
Frequency Sensitivity			±0.7	dB
Insertion Loss		0.5		dB
Directivity	20			dB
Main Line VSWR			1.2:1	
Input Power (CW)			50	Watts

Mechanical Specifications

Size

 Length
 2.87 in [72.9 mm]

 Width/Dia.
 0.59 in [14.99 mm]

 Height
 0.43 in [10.92 mm]

 Weight
 0.097 lbs [44 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Directional 6 dB SMA Coupler From 1 GHz to 4 GHz Rated to 50 Watts PE2CP005-6





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Configuration

Input Connector SMA Female
Output Connector SMA Female
Coupled Connectors SMA Female

Environmental Specifications

Temperature

Operating Range -55 to +85 deg C Storage Range -55 to +100 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Directional 6 dB SMA Coupler From 1 GHz to 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 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/directional-6-db-sma-coupler-4-ghz-pe2cp005-6-p.aspx

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PE2CP005-6 CAD Drawing

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