

## Directional 20 dB SMA Coupler From 1 GHz to 4 GHz Rated to 50 Watts



### Couplers Technical Data Sheet

PE2CP005-20

#### **Features**

- Directional Coupler
- 1 to 4 GHz Frequency Range
- Coupling 20±1 dB

- Directivity > 20 dB
- VSWR < 1.2:1</li>
- 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 PE2CP005-20 is a 20 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 PE2CP005-20 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		20 ±1		dB
Frequency Sensitivity			±0.7	dB
Insertion Loss		0.4		dB
Directivity	20			dB
Main Line VSWR			1.2:1	
Input Power (CW)			50	Watts

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

#### **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 20 dB SMA Coupler From 1 GHz to 4 GHz Rated to 50 Watts PE2CP005-20

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



# Directional 20 dB SMA Coupler From 1 GHz to 4 GHz Rated to 50 Watts



#### Couplers Technical Data Sheet

PE2CP005-20

Configuration

Package Type Connectorized
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:

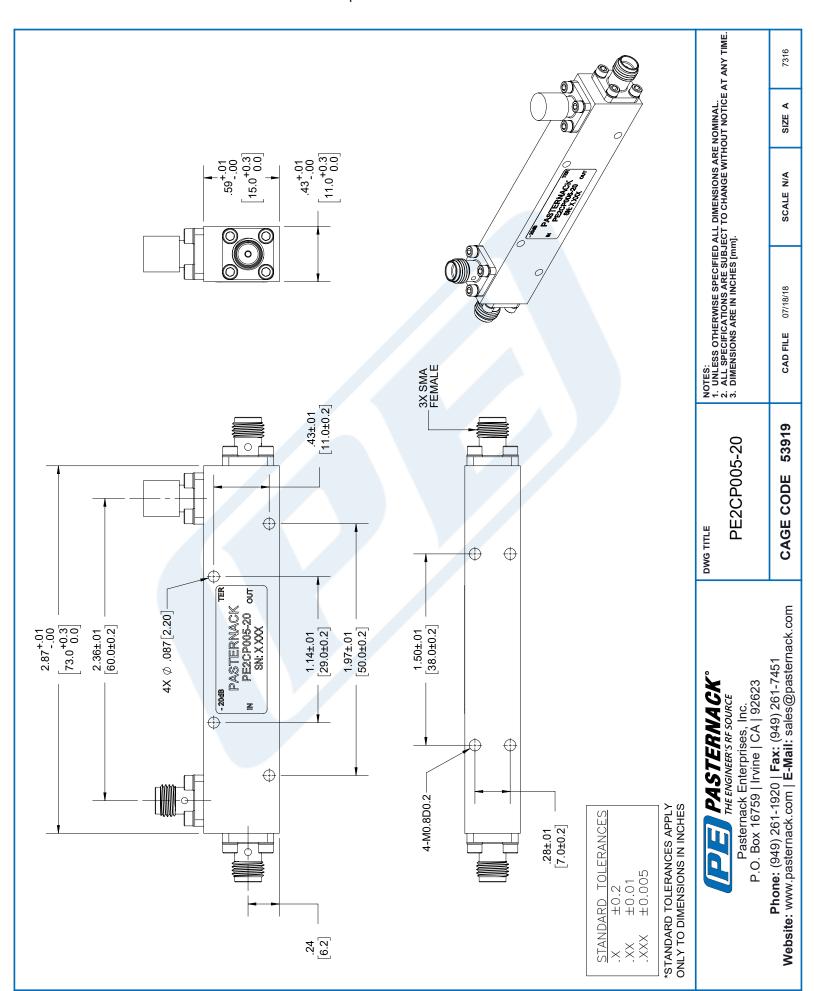
Directional 20 dB SMA Coupler From 1 GHz to 4 GHz Rated to 50 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Directional 20 dB SMA Coupler From 1 GHz to 4 GHz Rated to 50 Watts PE2CP005-20

URL: https://www.pasternack.com/directional-20-db-sma-coupler-4-ghz-pe2cp005-20-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.

PE2CP005-20 CAD Drawing
Directional 20 dB SMA Coupler From 1 GHz to 4 GHz Rated to 50 Watts



### **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Signal Conditioning category:

Click to view products by Pasternack manufacturer:

Other Similar products are found below:

PD0409J5050S2HF HHS-109-PIN AFS14A35-1591.50-T3 JP510S LFB322G45SN1A504 SF2159E FM-104-PIN CER0813B

MAPDCC0005 3A325 BD0810N50100AHF DC0710J5005AHF DC2327J5005AHF LFL15869MTC1B787 X3C19F1-20S

CDBLB455KCAX39-B0 RF1353C 051157-0000 PD0922J5050D2HF 1E1305-3 1F1304-3S TP-103-PIN BD1222J50200AHF

BD1722J50100AHF 2450DP39K5400E BD0810J50150AHF BD1722J50200AHF DS-327-PIN MACP-008125-CK07F0 DS-329-PIN DS
313-PIN TP-104-PIN TP-101-PIN HH-128-PIN 8594810000 T-1000-N JP506S XC0900P-10S XC0900B-30S CHE1260-QAG 11305-10

5962-9091202MXA 3A412S X3C06A4-03S B39000Z3410A4 DSS-333-PIN PD2425J5050S2HF B39242B4360P810 B39781B8005P810

B39881B8013P810