



### Hybrids Technical Data Sheet

PE2CP1043

#### **Features**

- · High Power
- 18 dB isolation
- · 500 MHz to 3 GHz Frequency Range

- · Gold Plated Silver Leads
- 2.2 inch by 0.8 inch package
- Clear Chem Film Per MIL-DTL-5541

### **Applications**

- Test and measurement
- · Military Communications
- · Commercial Communications
- · Wireless Communications
- SATCOM

Military Electronic Systems

#### Description

The PE2CP1043 operates from 500 MHz to 3 GHz and can handle 125 watts of power with 18 dB isolation. The package is 2.2 inch by 0.8 inch with gold plated silver leads and can be attached to a heat sink and PCB by screws. Gold plated leads are resistant to oxidation for ease of soldering and ensuring superior electrical performance of 1.3:1 VSWR and an insertion loss of 0.6 dB.

The PE2CP1043 is part of Pasternack's family of 90 degree hybrid couplers in drop-in packages. These couplers feature small drop-in packages that can handle power up to 1,000 Watts. They are available in both narrow and broad bandwidths. These quadrature hybrids are excellent for any situation to either equally split an input signal into two paths with a 90 degree phase shift between them or to combine two signals while maintaining high isolation between them.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.5		3	GHz
Impedance		50		Ohms
Phase Difference		90		Degrees
Insertion Loss			0.6	dB
Isolation	18			dB
VSWR			1.3:1	
Amplitude Balance		0.8		dB
Phase Balance		5		Degrees
Input Power (CW)			125	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 90 Degree Drop-In Hybrid Coupler From 500 MHz to 3 GHz Rated to 125 Watts PE2CP1043

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
 2.2 in [55.88 mm]

 Width
 0.2 in [5.08 mm]

 Height
 0.8 in [20.32 mm]

 Weight
 0.103 lbs [46.72 g]

Configuration

RF Connector Type Pin
Contact Material and Plating Silver, Gold

**Environmental Specifications** 

**Temperature** 

Operating Range -55 to +85 deg C

Compliance Certifications (visit www.Pasternack.com for current document)

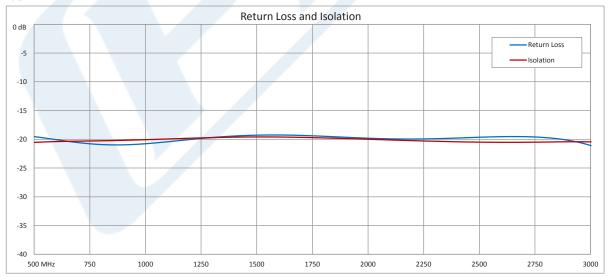
RoHS Compliant

REACH Compliant 12/17/2015

#### **Plotted and Other Data**

Notes:

#### **Typical Performance Data**



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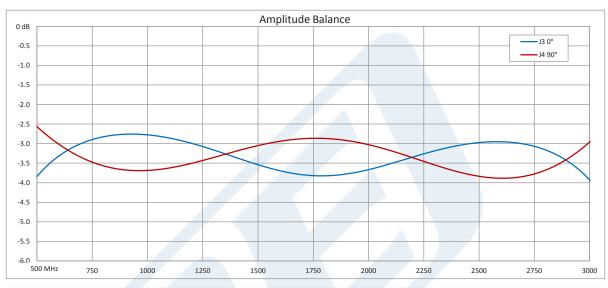
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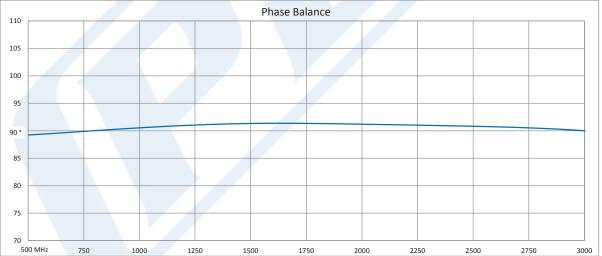




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90 Degree Drop-In Hybrid Coupler From 500 MHz to 3 GHz Rated to 125 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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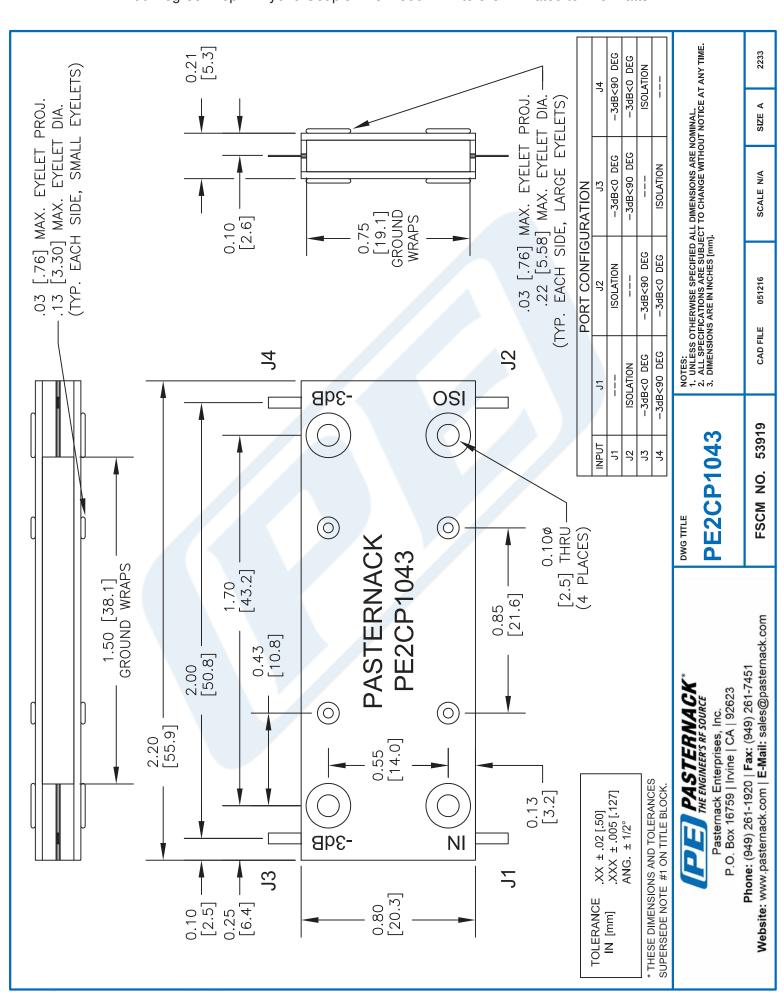
URL: http://www.pasternack.com/drop-in-coupler-500-mhz-3-ghz-125-watts-pe2cp1043-p.aspx

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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## PE2CP1043 CAD Drawing

90 Degree Drop-In Hybrid Coupler From 500 MHz to 3 GHz Rated to 125 Watts



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