



### Hybrids Technical Data Sheet

PE2CP1053

#### **Features**

- · 450 watts power
- 16 dB isolation
- 1000 MHz to 3000 MHz Frequency Range
- · Gold plated leads
- 1.35:1 VSWR
- · 1.35 inch by 0.5 inch package

### **Applications**

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

Military Electronic Systems

#### Description

The PE2CP1053 operates from 1000 MHz to 3000 MHz and can handle 450 watts of power with 16 dB isolation. The package is 1.35 inch by .5 inch and can be attached to a heat sink by screws. The gold plated leads are soldered to the PCB. This 90 degree hybrid has a VSWR of 1.35:1 and an insertion loss of 0.3 dB.

The PE2CP1053 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 1000 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**

1		3	011
		3	GHz
	50		Ohms
	90		Degrees
		0.25	dB
16			dB
		1.35:1	
	±1.1		dB
	±5		Degrees
		450	Watts
	16	90 16 ±1.1	90 0.25 16 1.35:1 ±1.1 ±5

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 1 GHz to 3 GHz Rated to 450 Watts PE2CP1053

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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#### **Mechanical Specifications**

Size

 Length
 1.35 in [34.29 mm]

 Width
 0.28 in [7.11 mm]

 Height
 0.5 in [12.7 mm]

Configuration

Mechanical Specification Notes:

Finish per MIL-DTL-5541, Type 2, Rev. F, Class 3

**Environmental Specifications** 

**Temperature** 

Operating Range -55 to +85 deg C

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

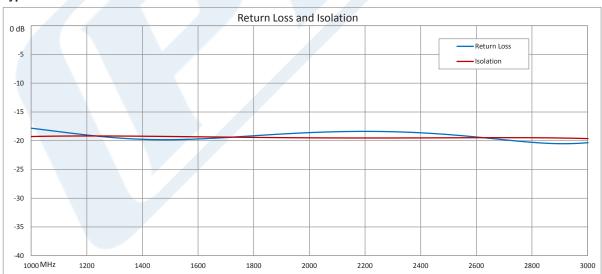
RoHS Compliant

REACH Compliant 12/17/2015

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

Notes:

#### **Typical Performance Data**



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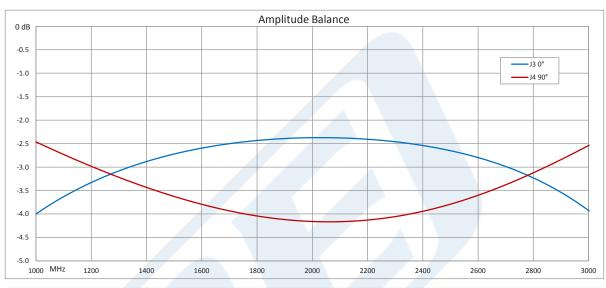
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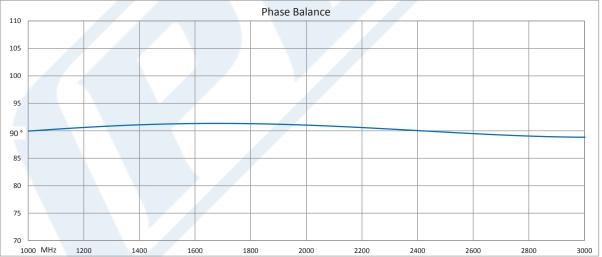




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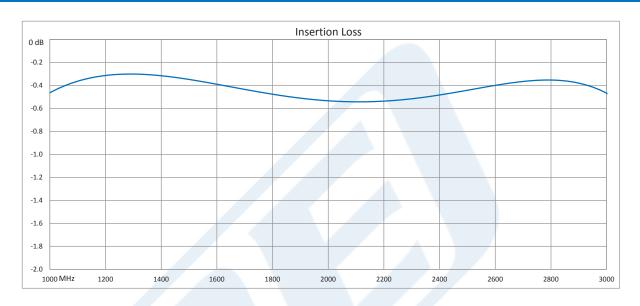
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90 Degree Drop-In Hybrid Coupler From 1 GHz to 3 GHz Rated to 450 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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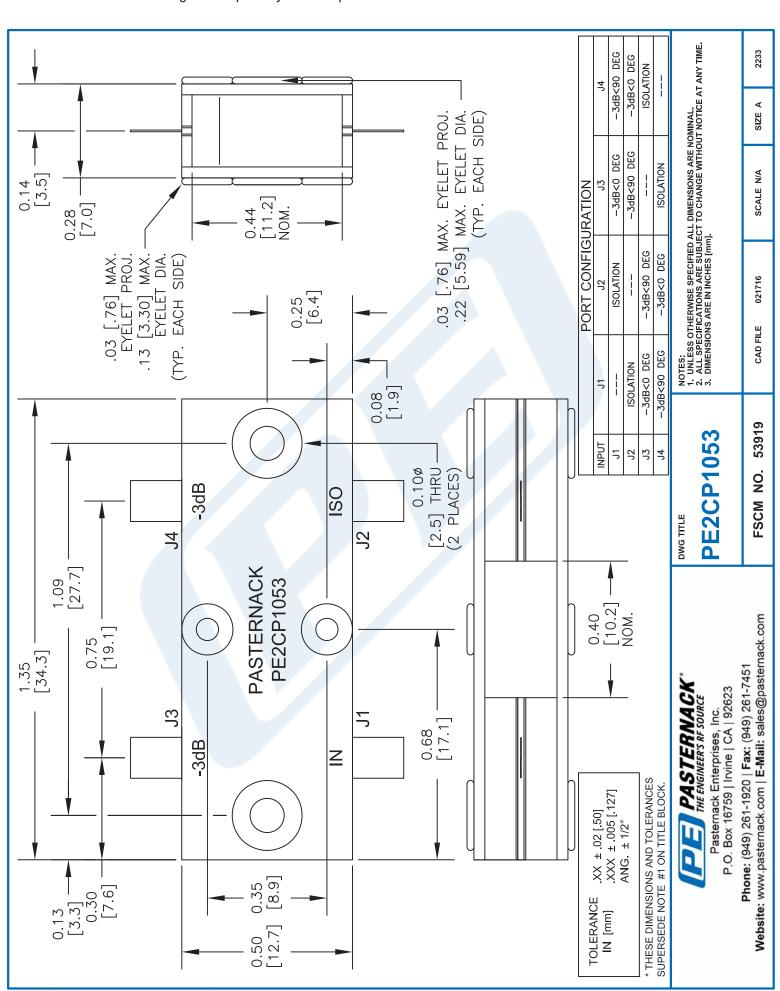
URL: http://www.pasternack.com/drop-in-coupler-1-3-ghz-450-watts-pe2cp1053-p.aspx

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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# PE2CP1053 CAD Drawing

90 Degree Drop-In Hybrid Coupler From 1 GHz to 3 GHz Rated to 450 Watts



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