

## 90 Degree Drop-In Hybrid Coupler From 500 MHz to 2.5 GHz Rated to 300 Watts



### **Hybrids Technical Data Sheet**

#### PE2CP1042

#### **Features**

- 300 watts power
- 17 dB isolation
- 500 MHz to 2500 MHz Frequency Range
- · Gold plated leads

- 1.32:1 VSWR
- 2.2 inch by 0.8 inch package
- · Attach to heat sink by two screws

#### **Applications**

- · Power amplifier
- Mixers
- Power dividers/combiners
- Antenna feeds
- Attenuators
- Switches

Phase shifters

#### **Description**

The PE2CP1042 operates from 500 MHz to 2500 MHz and can handle 300 watts of power with 17 dB isolation. The package is 2.2 inch by 0.8 inch package and is attached to the heat sink by two screws. The gold plated leads are soldered to the PCB. This 90 degree hybrid has a VSWR of 1.32:1 and an insertion loss of 0.5 dB.

The PE2CP1042 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**

Minimum	Typical	Maximum	Units
0.5		2.5	GHz
. 1	50		Ohms
	90		Degrees
		0.5	dB
17			dB
		1.32:1	
	±0.7		dB
	±6		Degrees
		300	Watts
	0.5	0.5 50 90 17 ±0.7	0.5 2.5  50  90  0.5  17  1.32:1  ±0.7  ±6

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 2.5 GHz Rated to 300 Watts PE2CP1042

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
 0.29 in [7.37 mm]

 Height
 0.8 in [20.32 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 12/17/2014

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

Notes:

#### **Typical Performance Data**



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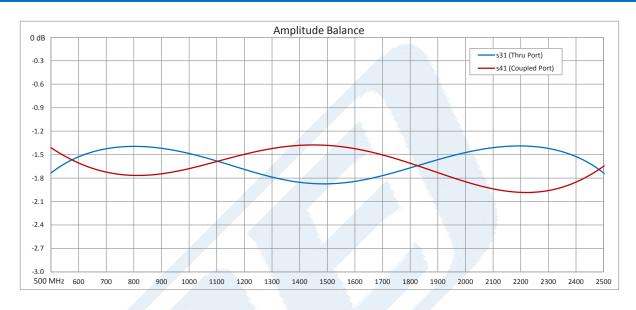






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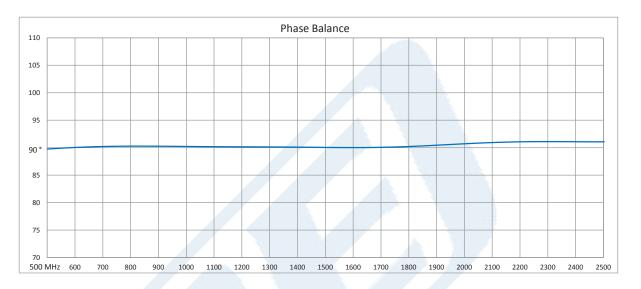


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90 Degree Drop-In Hybrid Coupler From 500 MHz to 2.5 GHz Rated to 300 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/drop-in-coupler-500-mhz-2.5-ghz-300-watts-pe2cp1042-p.aspx

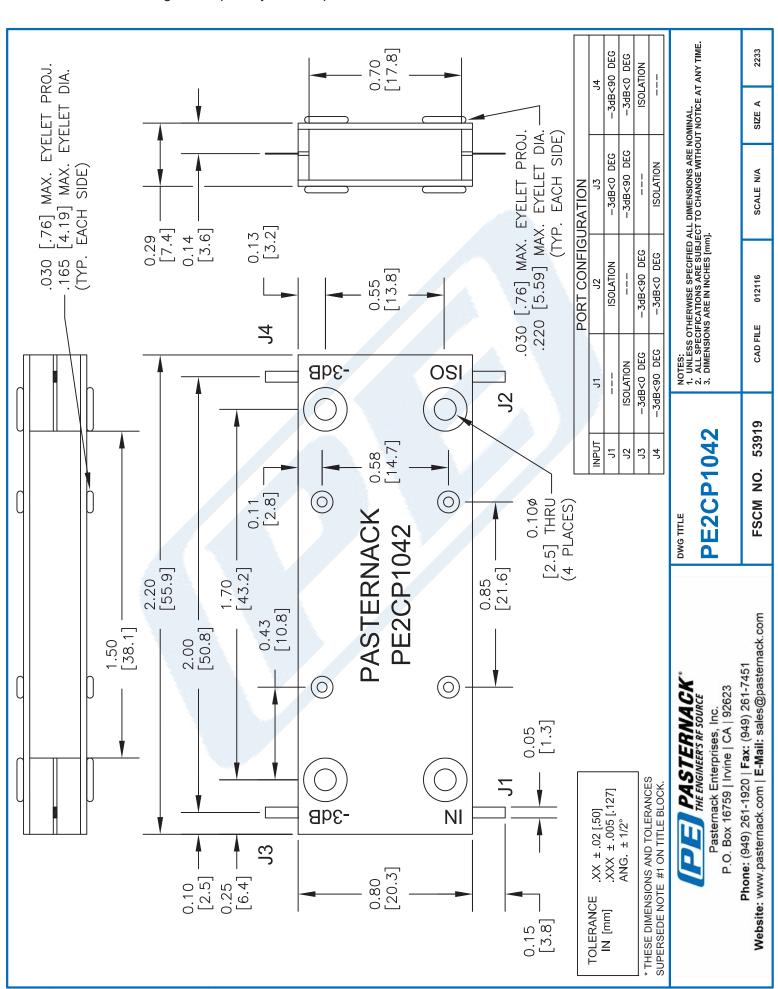
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## PE2CP1042 CAD Drawing

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