



## **Hybrids Technical Data Sheet**

#### PE2CP1037

#### **Features**

- · 200 watts power
- 18.5 dB isolation
- 400 MHz to 1000 MHz Frequency Range
- · Gold plated leads

- 1.25:1 VSWR
- 1.35 inch by 0.5 inch package
- · Attach to heat sink by two screws

### **Applications**

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

Phase shifters

#### **Description**

The PE2CP1037 operates from 400 MHz to 1000 MHz and can handle 200 watts of power with 18.5 dB isolation. The package is 1.35 inch by 0.5 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 1.25:1 and an insertion loss of 0.25 dB.

The PE2CP1037 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**

Description	Minimum	Typical	Maximum	Units
Frequency Range	400		1,000	MHz
Impedance		50		Ohms
Phase Difference		90		Degrees
Insertion Loss			0.25	dB
Isolation	18.5			dB
VSWR			1.25:1	
Amplitude Balance		±0.65		dB
Phase Balance		±5		Degrees
Input Power (CW)			200	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 400 MHz to 1,000 MHz Rated To 200 Watts PE2CP1037

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
 0.13 in [3.3 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 12/17/2014

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

Notes:

#### **Typical Performance Data**



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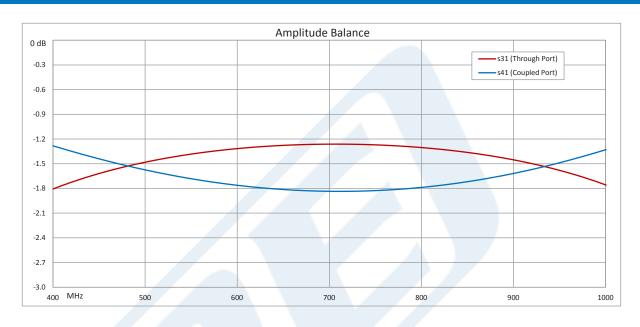
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90 Degree Drop-In Hybrid Coupler From 400 MHz to 1,000 MHz Rated To 200 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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 400 MHz to 1,000 MHz Rated To 200 Watts PE2CP1037

URL: http://www.pasternack.com/drop-in-coupler-400-1000-mhz-200-watts-pe2cp1037-p.aspx

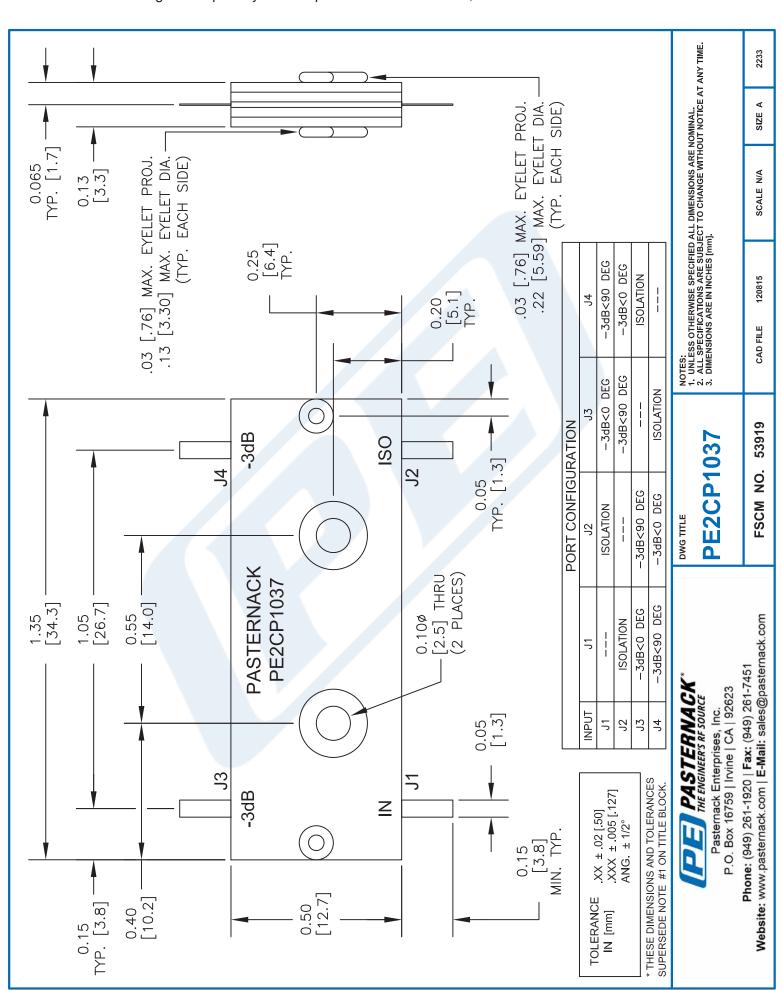
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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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## PE2CP1037 CAD Drawing

90 Degree Drop-In Hybrid Coupler From 400 MHz to 1,000 MHz Rated To 200 Watts



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