



# Hybrids Technical Data Sheet

## PE2CP1029

#### **Features**

- High Power
- 16 dB isolation
- · 100 MHz to 500 MHz Frequency Range

#### Applications

- Test and measurement
- Military Communications
- Commercial Communications

- · Gold Plated Silver Leads
- 3.3 inch by 1.5 inch package
- Clear Chem Film Per MIL-DTL-5541
- Wireless CommunicationsSATCOM
- Military Electronic Systems

#### Description

The PE2CP1029 operates from 100 MHz to 500 MHz and can handle 150 watts of power with 16 dB isolation. The package is 3.3 inch by 1.5 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 0.5 dB.

The PE2CP1029 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 signals while maintaining high isolation between them.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	100		500	MHz
Impedance		50		Ohms
Phase Difference		90		Degrees
Insertion Loss			0.5	dB
Isolation	16			dB
VSWR			1.3:1	
Amplitude Balance		±0.75		dB
Phase Balance		±6		Degrees
Input Power (CW)			150	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 100 MHz to 500 MHz Rated to 150 Watts PE2CP1029

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

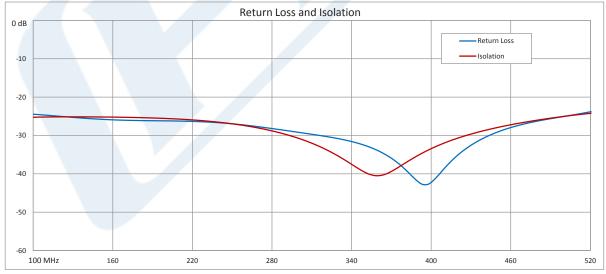


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Mechanical Specifications Size	
Length	3.3 in [83.82 mm]
Width Height	0.23 in [5.84 mm] 1.5 in [38.1 mm]
Weight	0.21 lbs [95.25 g]
Configuration	
RF Connector Type	Pin
Contact Material and Plating	Silver, Gold
Environmental Specifications Temperature	
Operating Range	-55 to +85 deg C
Compliance Certifications (visit www.Pastern RoHS Compliant	ack.com for current document)
REACH Compliant	12/17/2015
Plotted and Other Data Notes:	
Typical Performance Data	



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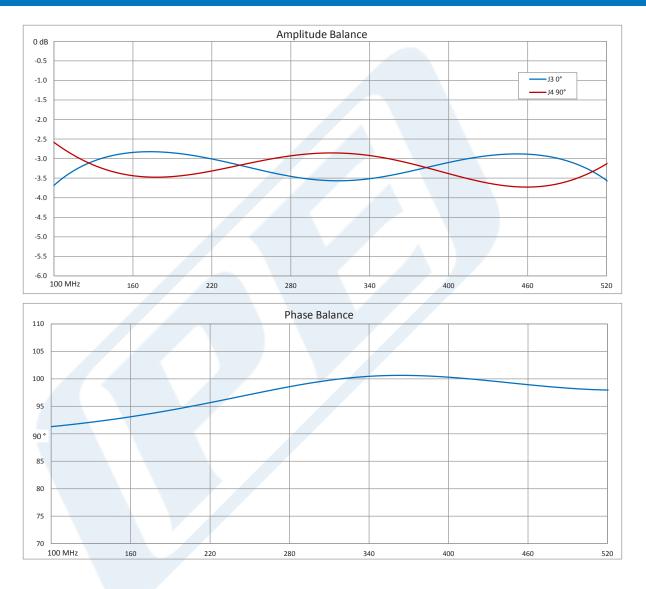
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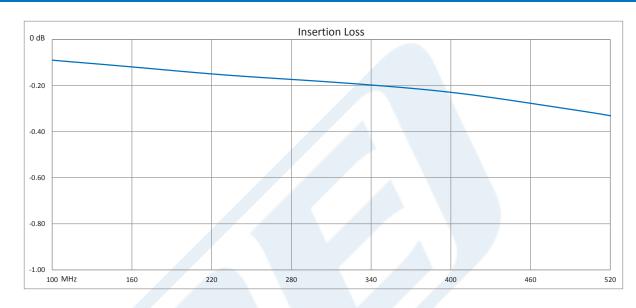
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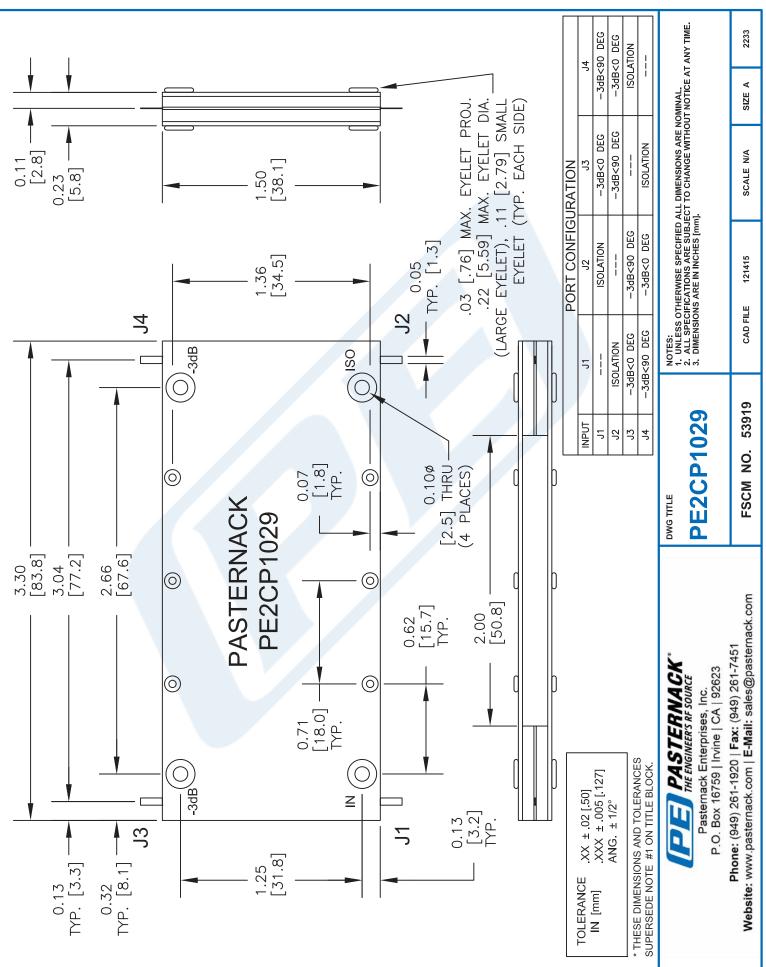
90 Degree Drop-In Hybrid Coupler From 100 MHz to 500 MHz Rated to 150 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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 100 MHz to 500 MHz Rated to 150 Watts PE2CP1029

URL: http://www.pasternack.com/drop-in-coupler-100-500-mhz-150-watts-pe2cp1029-p.aspx

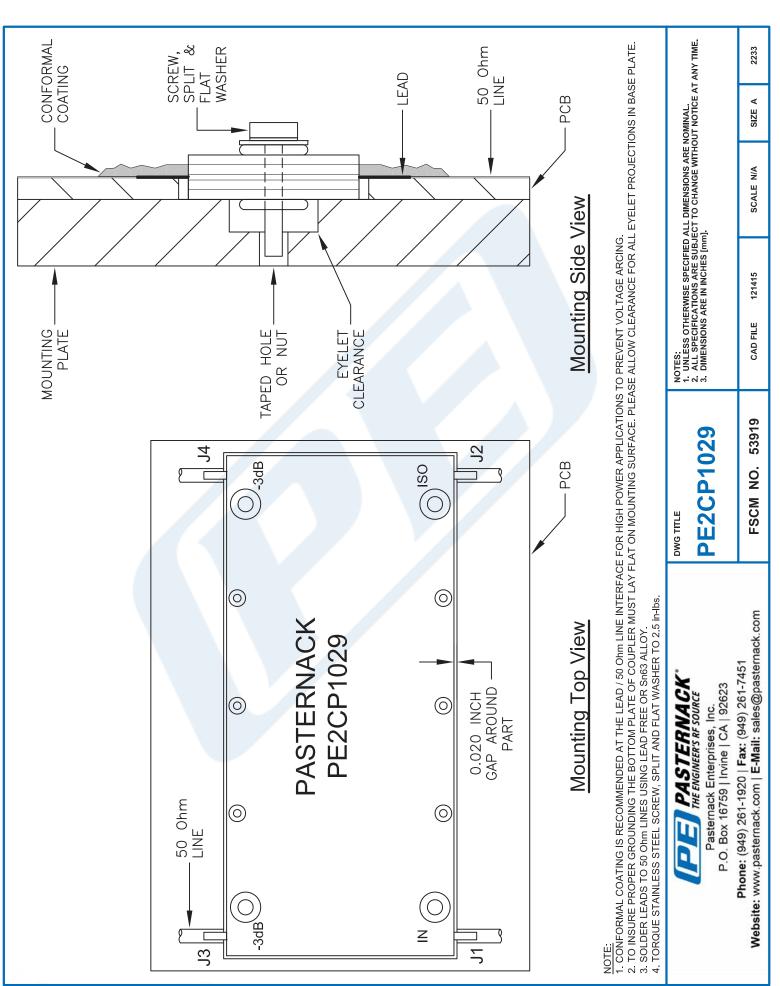
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#### PE2CP1029 CAD Drawing 90 Degree Drop-In Hybrid Coupler From 100 MHz to 500 MHz Rated to 150 Watts

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# PE2CP1029 CAD Drawing

90 Degree Drop-In Hybrid Coupler From 100 MHz to 500 MHz Rated to 150 Watts

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