

PE2CP1040

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Hybrids Technical Data Sheet

Features

- High Power
- 18 dB isolation
- 500 MHz to 2.5 GHz Frequency Range

Applications

- Test and measurement
- Military Communications
- Commercial Communications

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

SATCOM

Military Electronic Systems

Description

The PE2CP1040 operates from 500 MHz to 2.5 GHz and can handle 150 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 0.5 dB.

The PE2CP1040 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 | | 2.5 | GHz |
| Impedance | | 50 | | Ohms |
| Phase Difference | | 90 | | Degrees |
| Insertion Loss | | | 0.5 | dB |
| Isolation | 18 | | | dB |
| VSWR | | | 1.3:1 | |
| Amplitude Balance | | ±0.65 | | dB |
| Phase Balance | | ±5 | | 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 500 MHz to 2.5 GHz Rated to 150 Watts PE2CP1040

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

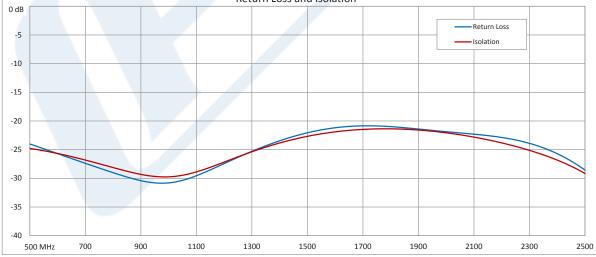


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PE2CP1040

| Size | |
|--|---------------------------------|
| Length | 2.2 in [55.88 mm] |
| Width | 0.22 in [5.59 mm] |
| Height | 0.8 in [20.32 mm] |
| Weight | 0.09 lbs [40.82 g] |
| Configuration | |
| RF Connector Type | Pin |
| Contact Material and Plating | Silver, Gold |
| nvironmental Specifications | |
| Temperature | |
| Operating Range | -55 to +85 deg C |
| Compliance Certifications (visit www.Paste | rnack.com for current document) |
| RoHS Compliant | |
| REACH Compliant | 12/17/2015 |
| Plotted and Other Data | |
| Notes: | |
| Typical Performance Data | |
| | Return Loss and Isolation |



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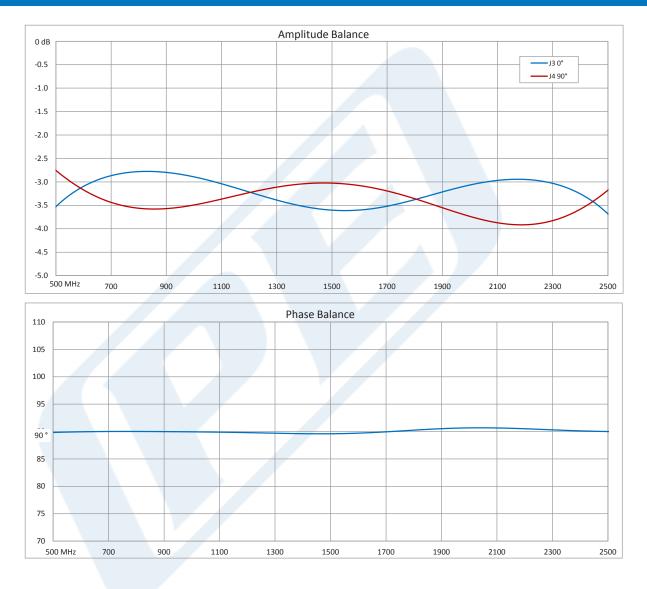
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90 Degree Drop-In Hybrid Coupler From 500 MHz to 2.5 GHz Rated to 150 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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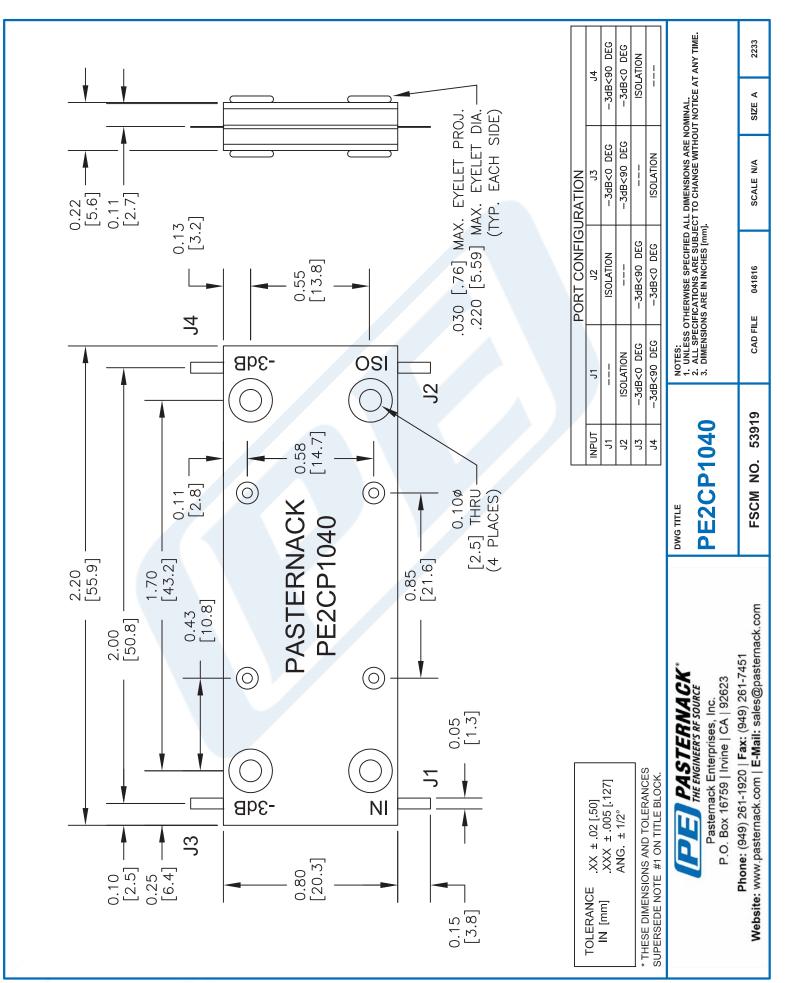
URL: http://www.pasternack.com/drop-in-coupler-500-mhz-2.5-ghz-150-watts-pe2cp1040-p.aspx

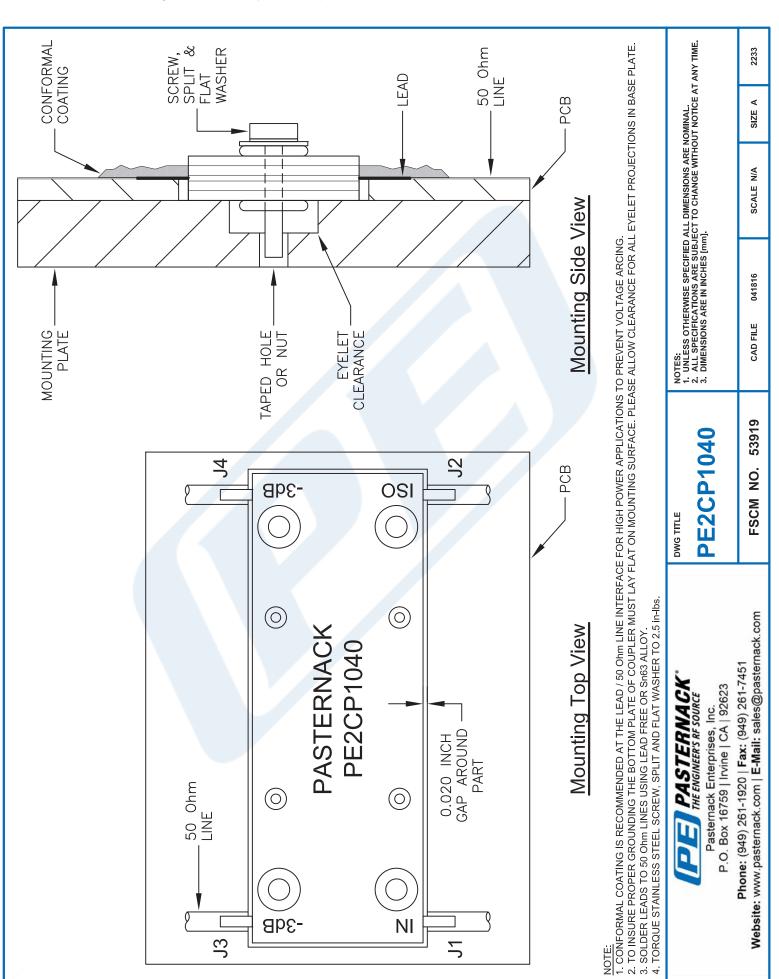
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PE2CP1040 CAD Drawing

90 Degree Drop-In Hybrid Coupler From 500 MHz to 2.5 GHz Rated to 150 Watts





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