

to 1,000 MHz Rated to 150 Watts 90 Degree Drop-In Hybrid Coupler From 20 MHz



Hybrids Technical Data Sheet

PE2CP1027

Features

- High Power
- 16 dB isolation 20 MHz to 1,000 MHz Frequency Range

- Gold Plated Silver Leads
- 2.2 inch by 3 inch package
- Clear Chem Film Per MIL-DTL-5541

Applications

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

Military Electronic Systems

Description

The PE2CP1027 operates from 20 MHz to 1,000 MHz and can handle 150 watts of power with 16 dB isolation. The package is 2.2 inch by 3 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 0.9 dB

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 The PE2CP1027 is part of Pasternack's family of 90 degree hybrid couplers in drop-in packages. These couplers feature small

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	20		1,000	MHz
Impedance		50		Ohms
Phase Difference		90		Degrees
Insertion Loss			0.9	dB
Isolation	16			dB
VSWR			1.3:1	
Amplitude Balance		0.25		dB
Phase Balance		12		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 20 MHz to 1,000 MHz Rated to 150 Watts PE2CP1027

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Mechanical Specifications

Size

Width Height Length

2.2 in [55.88 mm] 0.94 in [23.88 mm] 3 in [76.2 mm]

0.413 lbs [187.33 g]

Weight

ConfigurationRF Connector Type
Contact Material and Plating

Pin Silver, Gold

Environmental Specifications

Temperature

Operating Range

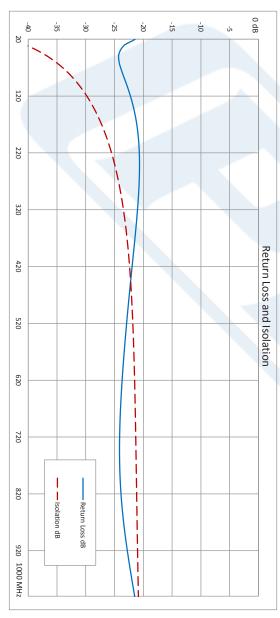
-55 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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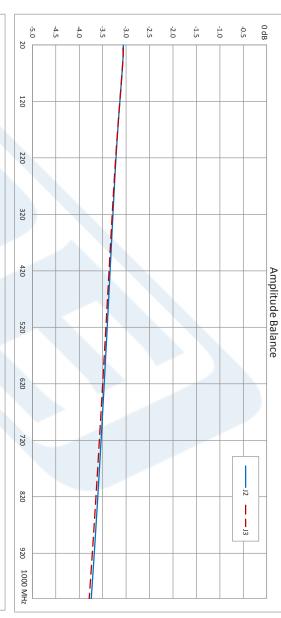


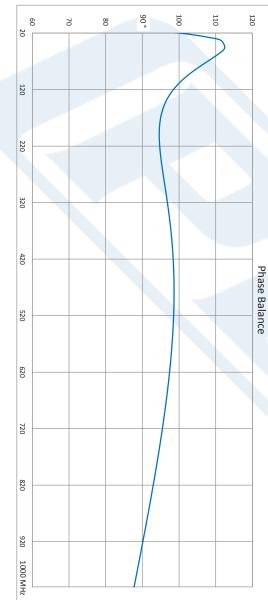


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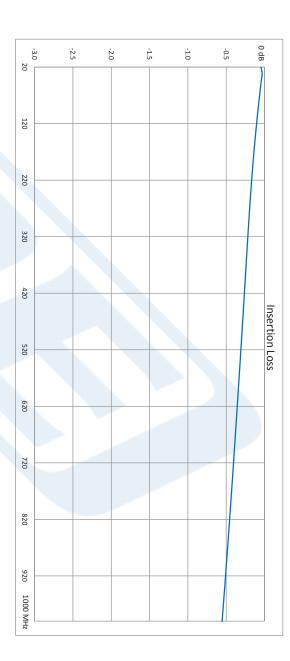




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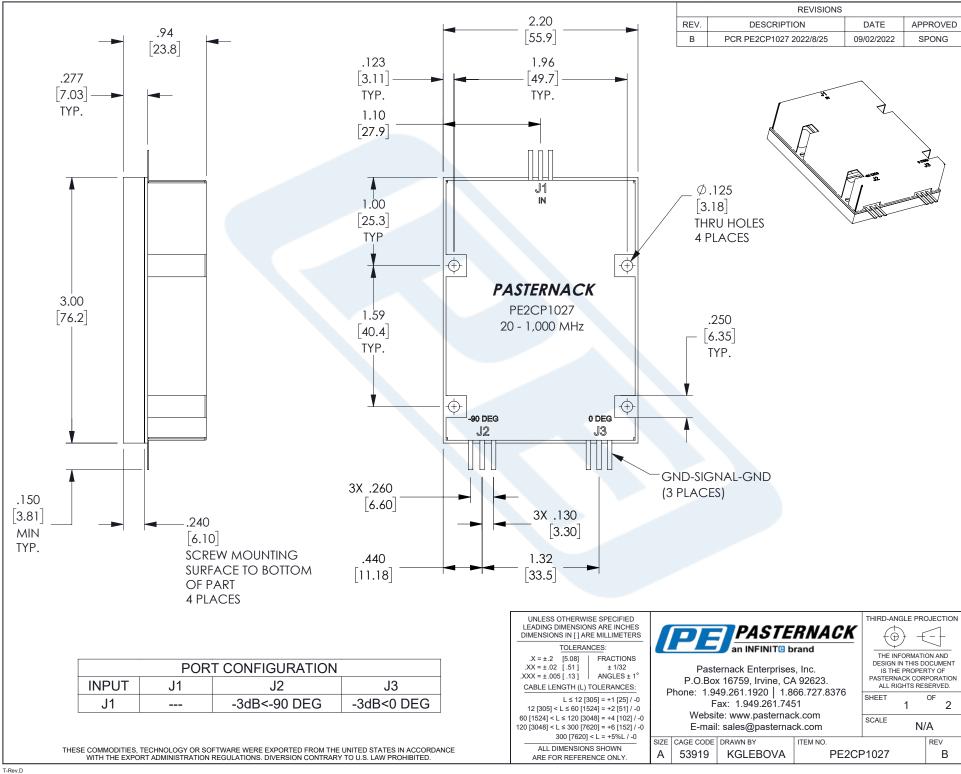
and are part of the broadest selection in the industry. shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability 90 Degree Drop-In Hybrid Coupler From 20 MHz to 1,000 MHz Rated to 150 Watts from Pasternack Enterprises has same day

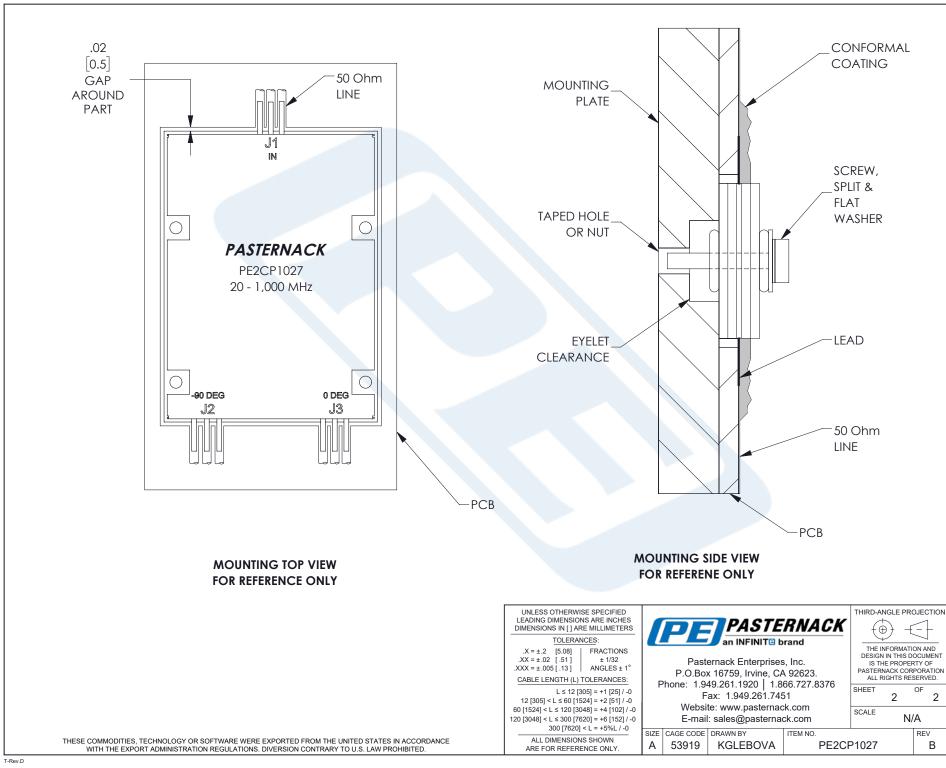
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URL: https://www.pasternack.com/drop-in-coupler-20-1000-mhz-150-watts-pe2cp1027-p.aspx

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. 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 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 PE2CP1027 REV 1.1







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