



Hybrids Technical Data Sheet

PE2CP1051

Features

- High Power
- 18 dB isolation
- 1 GHz to 2 GHz Frequency Range

Applications

- Test and measurement
- Military Communications
- Commercial Communications

- Gold Plated Silver Leads
- · 2.4 inch by 1 inch package
- Clear Chem Film Per MIL-DTL-5541
- Wireless Communications

SATCOM

Military Electronic Systems

Description

The PE2CP1051 operates from 1 GHz to 2 GHz and can handle 1,000 Watts of power with 18 dB isolation. The package is 2.4 inch by 1 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 1.25:1 VSWR and an insertion loss of 0.2 dB.

The PE2CP1051 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	1		2	GHz
Impedance		50		Ohms
Phase Difference		90		Degrees
Insertion Loss			0.2	dB
Isolation	18			dB
VSWR			1.25:1	
Amplitude Balance		±0.5		dB
Phase Balance		±5		Degrees
Input Power (CW)			1	KWatts

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 1 GHz to 2 GHz Rated to 1000 Watts PE2CP1051

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Mechanical Specifications				
Size Length Width Height Weight	2.4 in [60.96 mm] 0.48 in [12.19 mm] 1 in [25.4 mm] 0.26 lbs [117.93 g]			
Configuration RF Connector Type Contact Material and Plating	Pin Silver, Gold			
Environmental Specifications Temperature Operating Range	-55 to +85 deg C			
Compliance Certifications (visit www.Pasternack.com for current document)RoHS CompliantREACH Compliant12/17/2015				
Plotted and Other Data Notes:				
Typical Performance Data				



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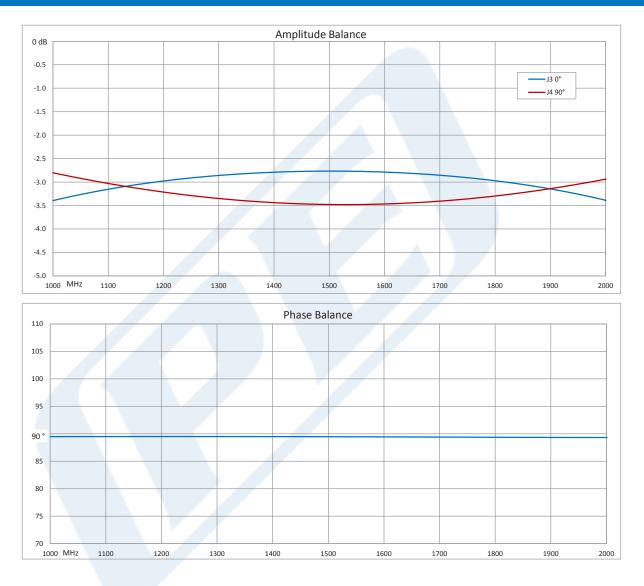
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90 Degree Drop-In Hybrid Coupler From 1 GHz to 2 GHz Rated to 1000 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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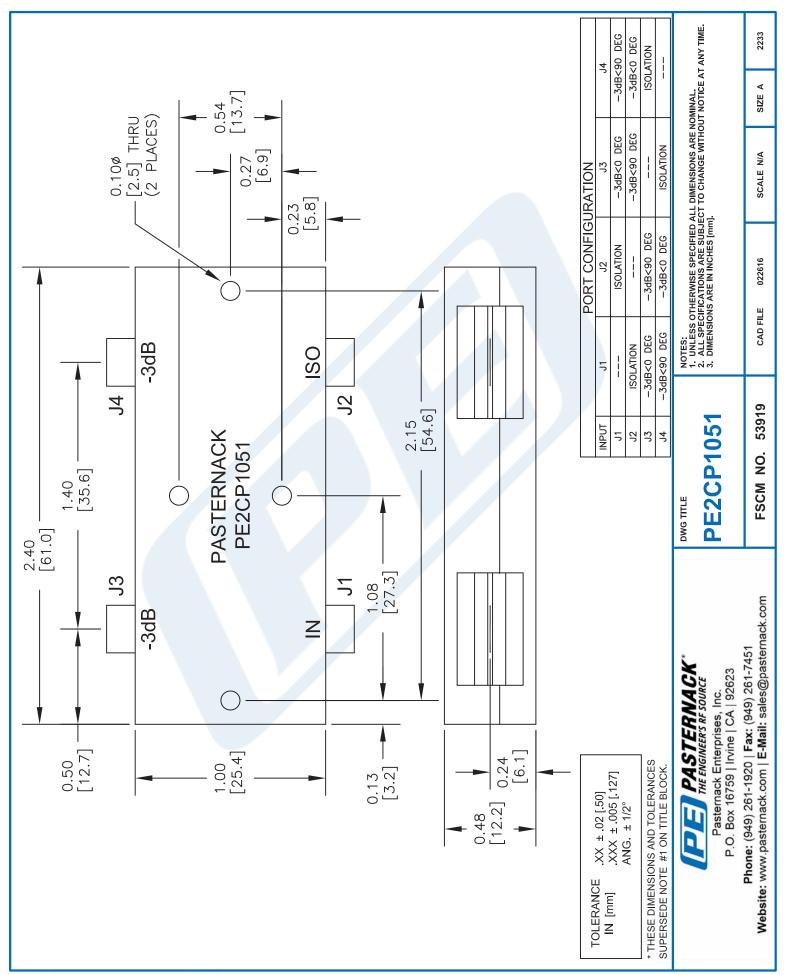
URL: http://www.pasternack.com/drop-in-coupler-1-2-ghz-1000-watts-pe2cp1051-p.aspx

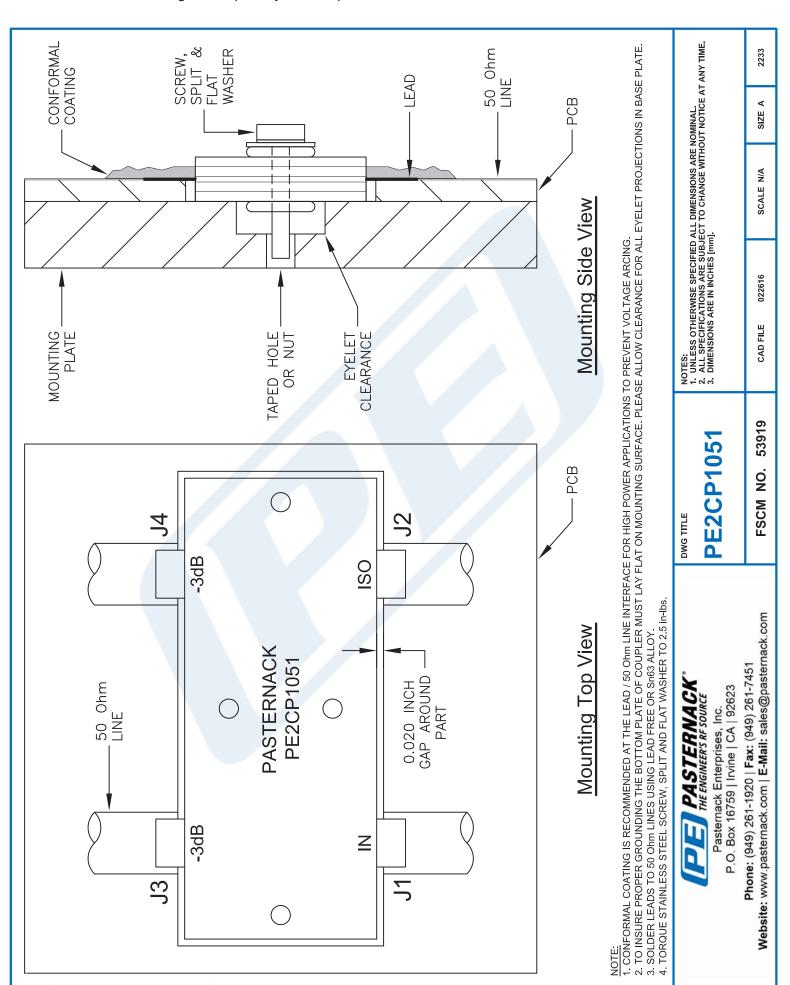
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PE2CP1051 CAD Drawing

90 Degree Drop-In Hybrid Coupler From 1 GHz to 2 GHz Rated to 1000 Watts





PE2CP1051 CAD Drawing

90 Degree Drop-In Hybrid Coupler From 1 GHz to 2 GHz Rated to 1000 Watts

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