



Hybrids Technical Data Sheet

PE2CP1140

Features

- 90° Phase Shift Between Output Ports
- High power handling of 50 Watts CW
- 0.5 to 1 GHz Frequency Range
- VSWR 1.1:1 Typical
- · High Isolation of 22 dB Minimum

- · Low 0.2 dB Insertion Loss Typical
- SMA Female Connectors
- Stable performance over Operating Temperature Range

Applications

- Test and Measurement
- · Commerical Communications
- SATCOM
- · Military Communications

Wireless Communications

Description

The PE2CP1140 is a high power 90 degree hybrid coupler that operates from 0.5 to 1 GHz and can handle 22 Watts (CW) with 22 dB isolation minimum and 1.2:1 VSWR maximum. The package interface uses SMA Female connectors.

The PE2CP1140 is part of Pasternack's family of 90 degree hybrid couplers that offer excellent performance featuring high isolation, low insertion loss and VSWR while maintaining great amplitude/phase balance over the entire operating frequency range. They are available in both narrow and broad bandwidths and can be used in a wide variety of applications including signal sampling, phased array radar, and any application that requires even power distribution with a 90 degree difference in phase.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	500		1,000	MHz
Impedance		50		Ohms
Phase Difference		90		Degrees
Coupling		3		dB
Insertion Loss		0.2	0.3	dB
Isolation	22	25		dB
VSWR		1.1:1	1.2:1	
Amplitude Balance		±0.3	±0.5	dB
Phase Balance		±1.5	±2	Degrees
Input Power (CW)	7		50	Watts
Input Power (Peak)			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 SMA Hybrid Coupler from 500 MHz to 1 GHz Rated to 50 Watts PE2CP1140

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
 3.33 in [84.58 mm]

 Width
 0.43 in [10.92 mm]

 Height
 0.51 in [12.95 mm]

 Weight
 0.10285 lbs [46.65 g]

Configuration

RF Connector Type SMA Female

Environmental Specifications

Temperature

Operating Range -45 to +85 deg C Storage Range -55 to +125 deg C

Humidity 100% RH at 35°c, 95% RH at 40°c

Shock 20G for 11msec half sine wave, 3 axis both directions Vibration 25gRMS (15 degrees 2KHz) endurance, 1 hour per axis

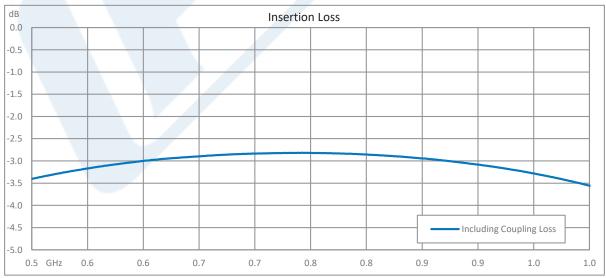
Altitude 30,000 ft.

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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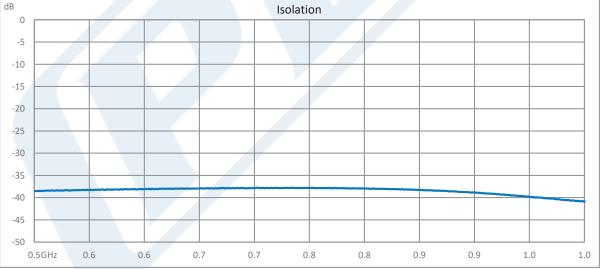




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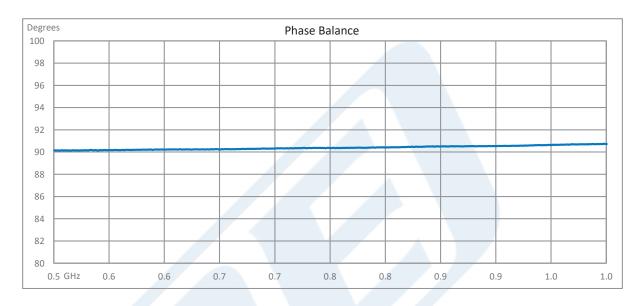
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90 Degree SMA Hybrid Coupler from 500 MHz to 1 GHz Rated to 50 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part 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 SMA Hybrid Coupler from 500 MHz to 1 GHz Rated to 50 Watts PE2CP1140

URL: https://www.pasternack.com/sma-coupler-1000-mhz-pe2cp1140-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.

PE2CP1140 CAD Drawing

90 Degree SMA Hybrid Coupler from 500 MHz to 1 GHz Rated to 50 Watts

