



Dual Directional 50 dB N Coupler From 20 MHz to 500 MHz Rated To 1000 Watts

TECHNICAL DATA SHEET

PE2CP1003

Configuration

| | |
|--------------------|--------------------------|
| Connector 1 | N Female |
| Connector 2 | N Female |
| Coupled Connectors | SMA Female |
| Design | Dual Directional Coupler |

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------|---------|---------|---------|--------|
| Frequency Range | 20 | | 500 | MHz |
| Directivity | 20 | | | dB |
| Impedance | | 50 | | Ohms |
| Insertion Loss | | | 0.1 | dB |
| Input Power | | | 1 | KWatts |
| Input VSWR | | | 1.25:1 | |
| Coupling Value | | 50 | | dB |
| Coupling Tolerance | | | ± 1 | dB |
| Coupling Flatness | | | ± 0.5 | dB |

Mechanical Specifications

Temperature

| | |
|-----------------|------------------|
| Operating Range | -55 to +85 deg C |
|-----------------|------------------|

Size

| | |
|------------------------------|---------------------------|
| Length | 2.5 in [63.5 mm] |
| Width/Dia. | 1.11 in [28.19 mm] |
| Height | 1.5 in [38.1 mm] |
| Housing Material and Plating | Aluminum Alloy, Chem Film |

Connectors

| Description | Connector 1 | Connector 2 | Coupled Connectors |
|-------------|-------------|-------------|--------------------|
| Type | N Female | N Female | SMA Female |

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Dual Directional 50 dB N Coupler From 20 MHz to 500 MHz Rated To 1000 Watts PE2CP1003](#)



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Dual Directional 50 dB N Coupler From 20 MHz to 500 MHz 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.

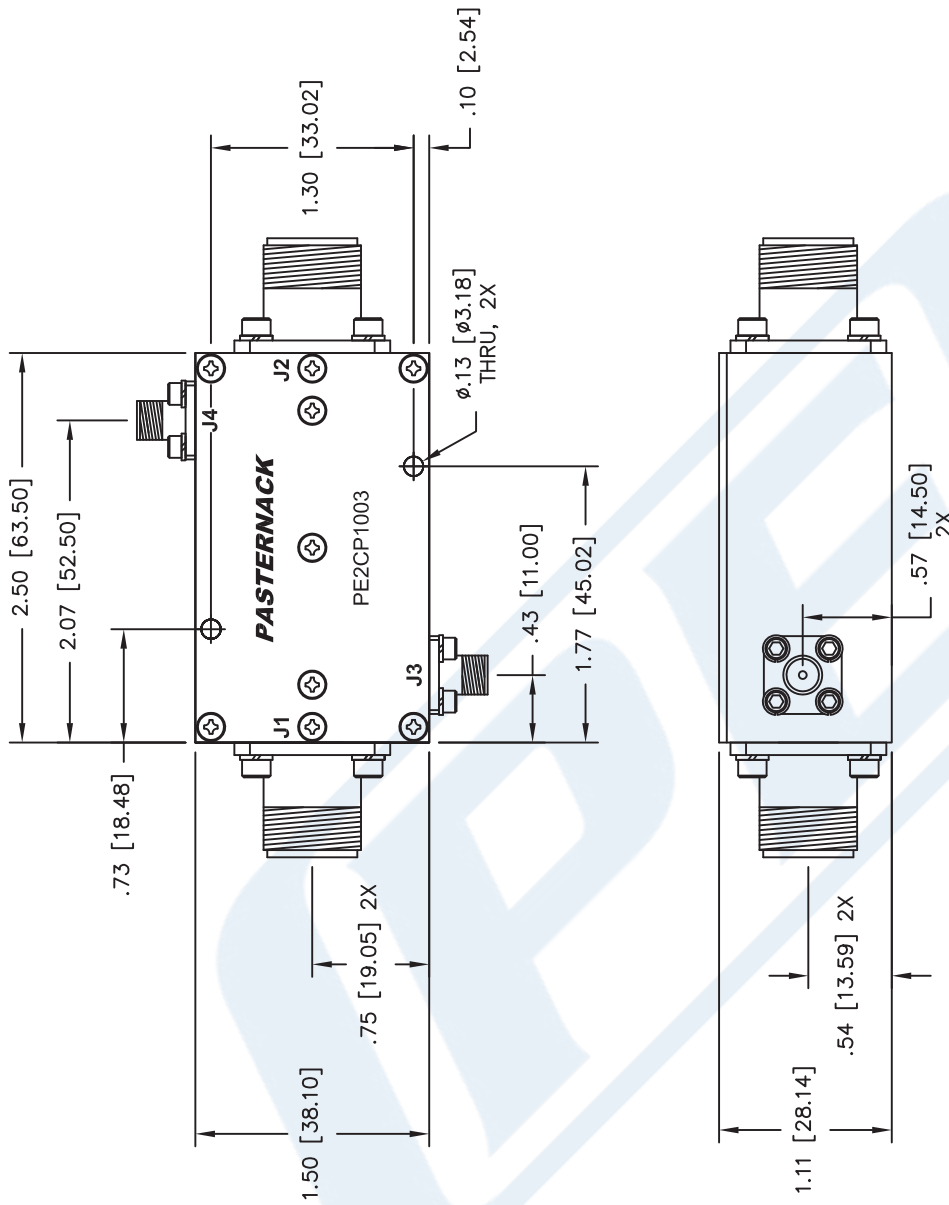
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Dual Directional 50 dB N Coupler From 20 MHz to 500 MHz Rated To 1000 Watts PE2CP1003](http://www.pasternack.com/dual-directional-50-db-n-coupler-20-500-mhz-1000-watts-pe2cp1003-p.aspx)

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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.

PE2CP1003 CAD Drawing

Dual Directional 50 dB N Coupler From 20 MHz to 500 MHz Rated To 1000 Watts



| INPUT | OUTPUT | FORWARD COUPLING | REFLECTED COUPLING |
|-------|--------|------------------|--------------------|
| J1 | J2 | J3 | J4 |
| J2 | J1 | J4 | J3 |

TOLERANCE .XX ±.02
.XXX ±.005
ANG. ±1/2°

* THESE DIMENSIONS AND TOLERANCES
SUPERSEDE NOTE #1 ON TITLE BLOCK.

DWG TITLE

PE2CP1003

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

PE PASTERNAK®
THE ENGINEER'S RF SOURCE
Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com

FSCM NO. 53919

CAD FILE 092515

SCALE N/A

SIZE A

2233