



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

TECHNICAL DATA SHEET

PE2CP1002

**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			0.2	dB
Input Power			500	Watts
Input VSWR			1.25:1	
Coupling Value		50		dB
Coupling Tolerance			± 1	dB
Coupling Flatness			±0.5	dB

**Mechanical Specifications**

**Temperature**

Operating Range +85 to -55 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](http://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 500 Watts PE2CP1002](#)



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

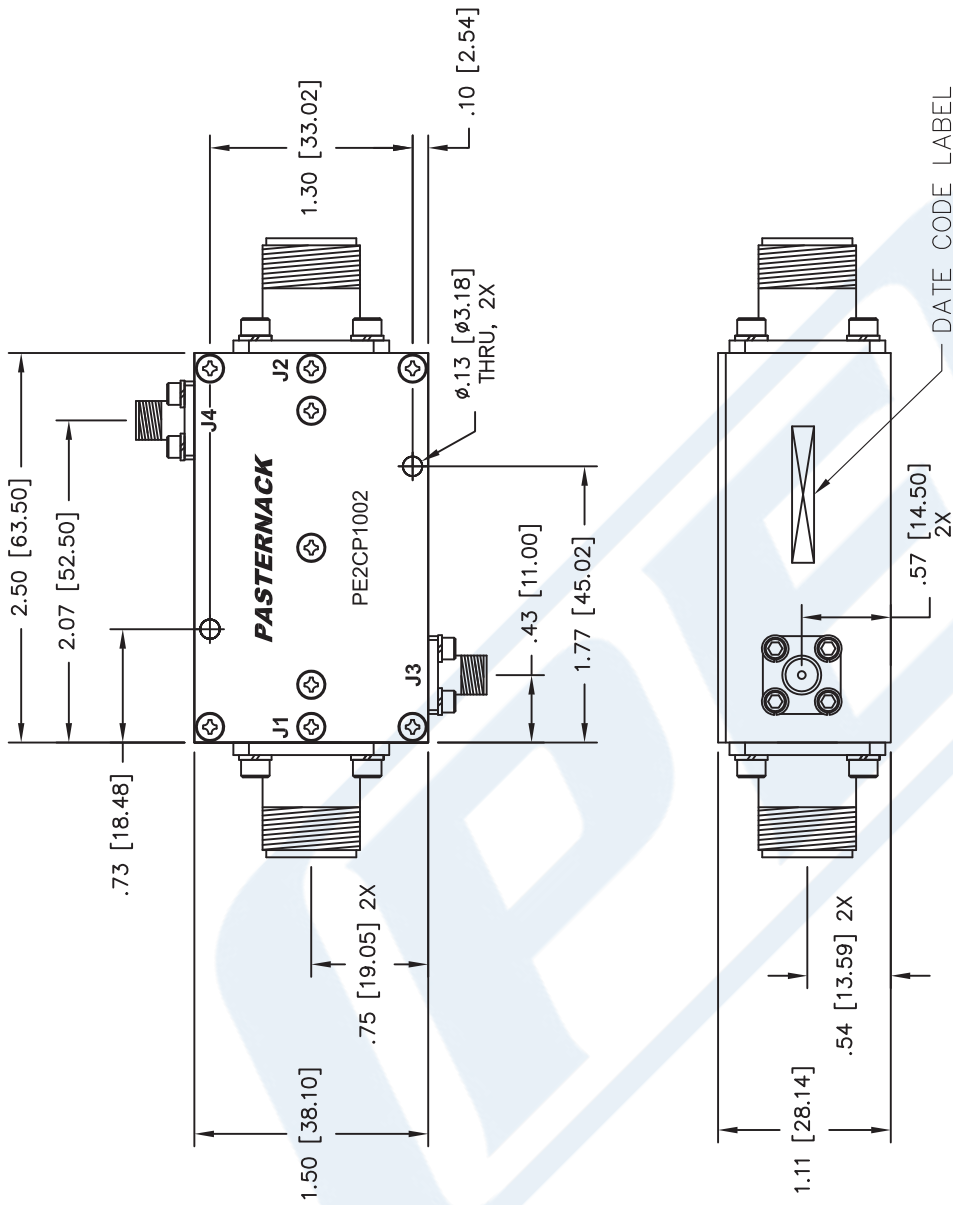
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Dual Directional 50 dB N Coupler From 20 MHz to 500 MHz Rated To 500 Watts PE2CP1002](http://www.pasternack.com/dual-directional-50-db-n-coupler-20-500-mhz-500-watts-pe2cp1002-p.aspx)

URL: <http://www.pasternack.com/dual-directional-50-db-n-coupler-20-500-mhz-500-watts-pe2cp1002-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.

# PE2CP1002 CAD Drawing

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



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

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

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

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].

DWG TITLE  
**PE2CP1002**

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FSCM NO. 53919

CAD FILE 041015

SCALE N/A

SIZE A

2233