



## 4 Way N Power Divider From 2 MHz to 500 MHz Rated at 1 Watt

### Power Dividers Technical Data Sheet

**PE2045**

#### Features

- 4-Way Power Divider
- Reactive Design
- 2 to 500 MHz Frequency Range
- Max Power 1 Watt (CW)
- Insertion Loss < 1.5 dB
- Isolation > 22 dB

#### Applications

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

#### Description

Pasternack carries a wide selection of power dividers to fit your needs. These components are essential in many systems, allowing the combination of multiple signals or splitting of a single signal into multiple signals with equal magnitude and phase. Pasternack's resistive and Wilkinson power dividers come with excellent performance featuring minimal loss, high isolation and low VSWR. They are available in both narrow and broad bandwidths with a variety of connector types such as 2.92mm, BNC, N and SMA.

The PE2045 is a 4-way reactive power divider that operates from 2 to 500 MHz and can handle up to 1 Watt (CW) with 1.5 dB max insertion loss and 22 dB min isolation. The package interface uses N female connectors and is REACH and RoHS compliant.

#### Electrical Specifications

Design: Reactive  
 Number of Output Ports: 4

Description	Minimum	Typical	Maximum	Units
Frequency Range	2		500	MHz
Impedance		50		Ohms
Input VSWR			1.35:1	
Output VSWR			1.35:1	
Insertion Loss			1.5	dB
Isolation	22			dB
Amplitude Balance			0.4	dB
Phase Balance			3	Degrees
Input Power (CW)			1	Watts

Electrical Specification Notes:  
 Max input power rated for load VSWR better than 1.20:1.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4 Way N Power Divider From 2 MHz to 500 MHz Rated at 1 Watt PE2045](#)



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#### Mechanical Specifications

##### Size

Length	3.44 in [87.38 mm]
Width	1.75 in [44.45 mm]
Height	0.93 in [23.62 mm]
Weight	0.687 lbs [311.62 g]

##### Configuration

Package Type	Connectorized
Input Connector	N Female
Output Connectors	N Female

#### Environmental Specifications

##### Temperature

Operating Range	-25 to +80 deg C
Storage Range	-55 to +150 deg C

##### Humidity

MIL-STD-202, Method 106 (90% relative humidity, +65°C)

##### Shock

MIL-STD-202, Method 213/I (100 G's, 6 ms)

##### Vibration

MIL-STD-202, Method 204/D (10 to 2,000 Hz, 20 G's, 12 hours)

##### Altitude

MIL-STD-202, Method 105/E (150,000 feet)

##### Thermal Shock

MIL-STD-202, Method 107/B (-55°C to +85°C)

#### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant

REACH Compliant

12/17/2015

#### Plotted and Other Data

Notes:

4 Way N Power Divider From 2 MHz to 500 MHz Rated at 1 Watt 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.

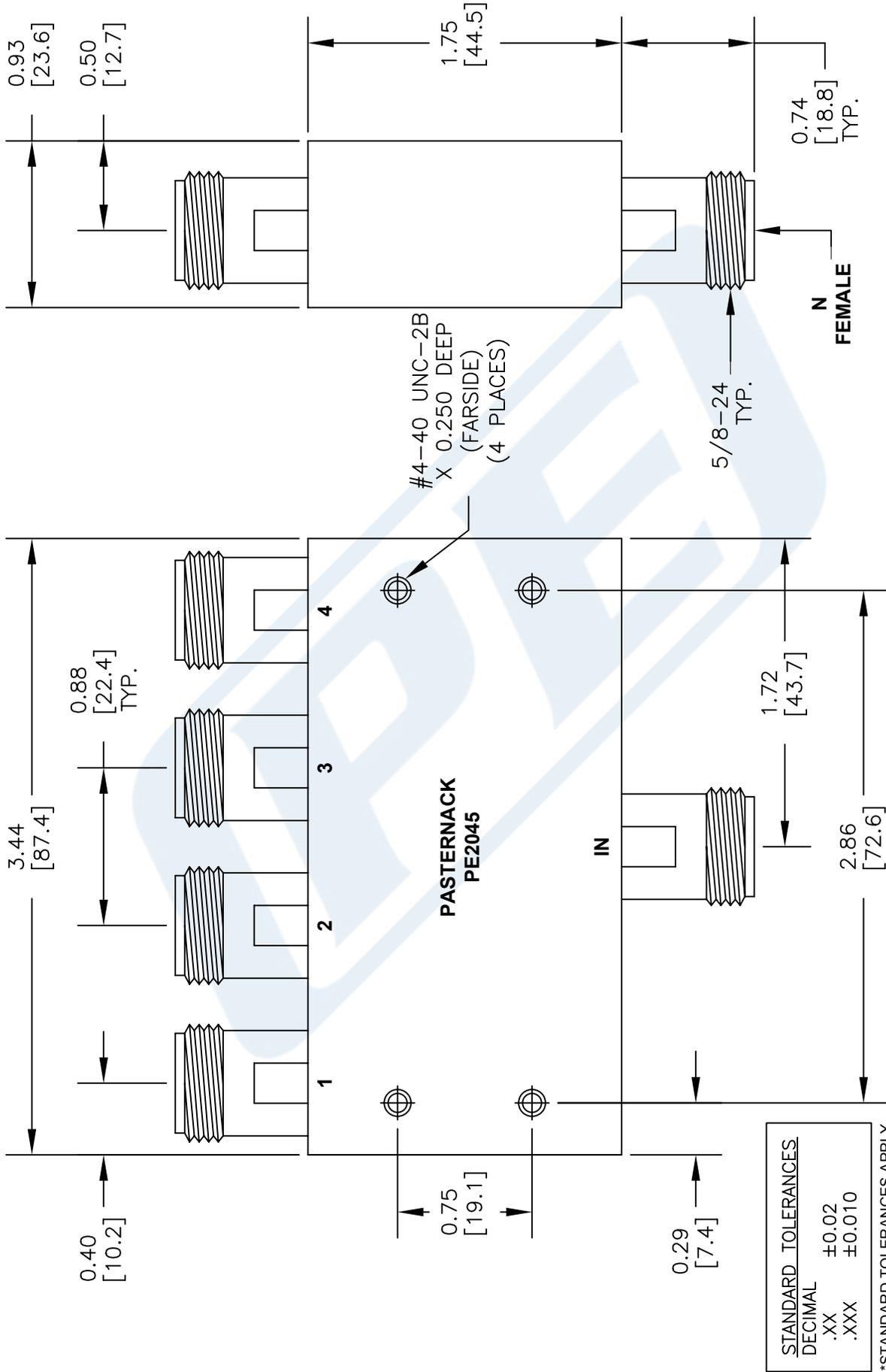
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

# PE2045 CAD Drawing

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DWG TITLE

**PE2045**

- 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].

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FSCM NO. 53919

CAD FILE 050616

SCALE N/A

SIZE A

3045