

## 4 Way SMA Wilkinson Power Divider From 1 GHz to 2 GHz Rated at 10 Watts

### Power Dividers Technical Data Sheet

**PE2012**

#### Features

- 4-Way Power Divider
- Wilkinson Design
- 1 to 2 GHz Frequency Range
- Max Power 10 Watts (CW)
- Insertion Loss < 0.6 dB
- Isolation > 20 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 PE2012 is a 4-way Wilkinson power divider that operates from 1 to 2 GHz and can handle up to 10 Watts (CW) with 0.6 dB max insertion loss and 20 dB min isolation. The package interface uses SMA female connectors and is REACH and RoHS compliant.

#### Electrical Specifications

Design: Wilkinson  
Number of Output Ports: 4

Description	Minimum	Typical	Maximum	Units
Frequency Range	1		2	GHz
Impedance		50		Ohms
Input VSWR			1.6:1	
Output VSWR			1.6:1	
Insertion Loss			0.6	dB
Isolation	20			dB
Amplitude Balance			0.2	dB
Phase Balance			4	Degrees
Input Power (CW)			10	Watts

Electrical Specification Notes:  
Max input power rated for load VSWR better than 2.0:1.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4 Way SMA Wilkinson Power Divider From 1 GHz to 2 GHz Rated at 10 Watts PE2012](#)



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#### Mechanical Specifications

##### Size

Length	2.75 in [69.85 mm]
Width	2.5 in [63.5 mm]
Height	0.38 in [9.65 mm]
Weight	0.316 lbs [143.34 g]

##### Configuration

Package Type	Connectorized
Input Connector	SMA Female
Input Connector Specification	MIL-STD-348
Output Connectors	SMA Female
Output Connectors Specification	MIL-STD-348

#### Environmental Specifications

##### Temperature

Operating Range	-55 to +80 deg C
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#### 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 SMA Wilkinson Power Divider From 1 GHz to 2 GHz Rated at 10 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.

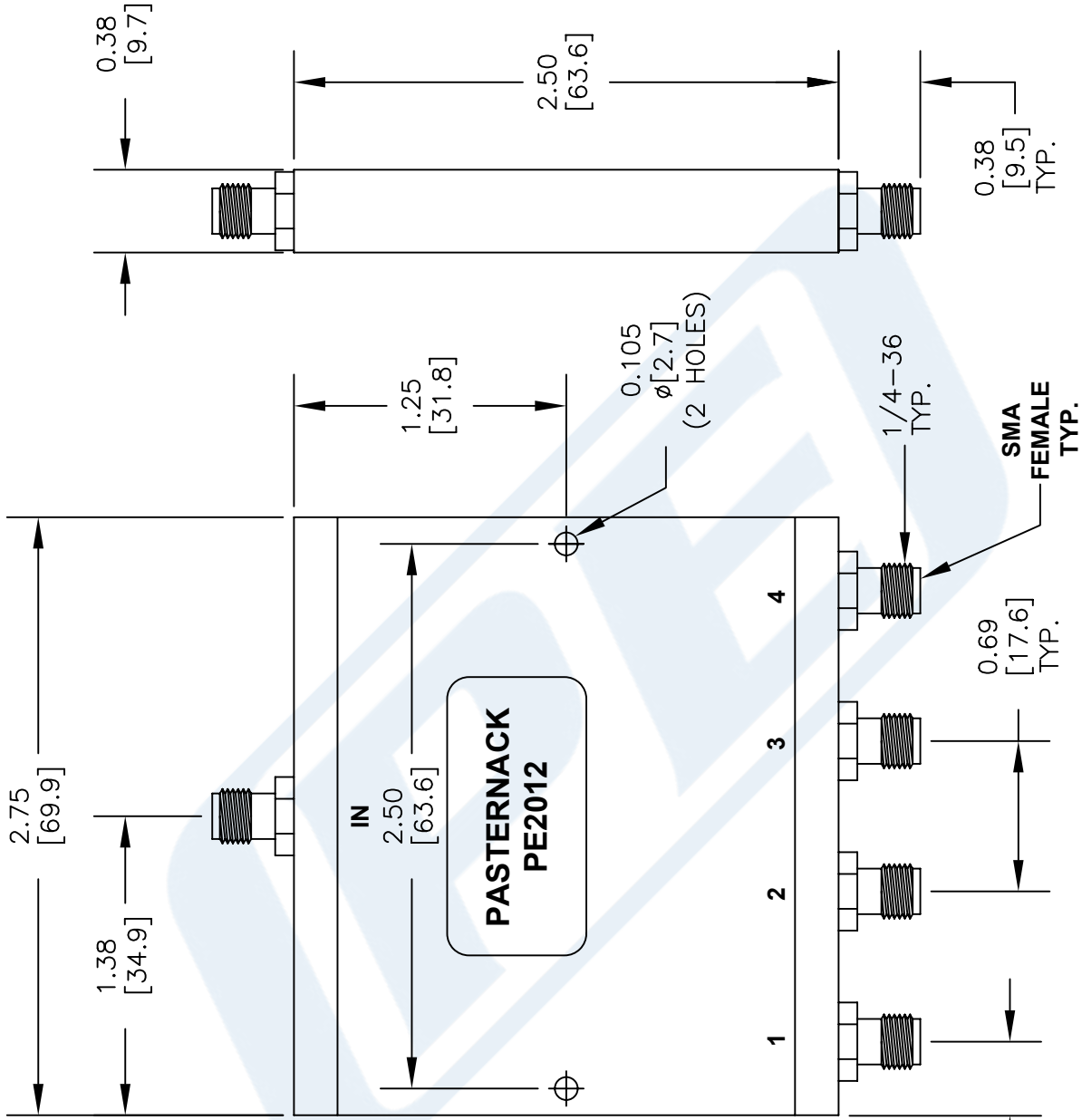
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4 Way SMA Wilkinson Power Divider From 1 GHz to 2 GHz Rated at 10 Watts PE2012](http://www.pasternack.com/4-way-sma-reactive-power-divider-1-ghz-2-ghz-10-watts-pe2012-p.aspx)

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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.

# PE2012 CAD Drawing

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STANDARD TOLERANCES	
.X	±0.2
.XX	±0.1
.XXX	±0.05

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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  
**PE2012**

FSCM NO. **53919**

CAD FILE 050416 SCALE N/A SIZE A 3045

**PE PASTERNAK**  
 THE ENGINEER'S RF SOURCE

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