



2 Way 2.92mm Power Divider From 10 GHz to 40 GHz Rated at 12 Watts

Power Dividers Technical Data Sheet

PE2077

Features

- 2-Way Power Divider
- High Power Reactive Design
- 10 to 40 GHz Frequency Range
- Max Power 12 Watts (CW)
- Insertion Loss < 1.8 dB
- Isolation > 12 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 PE2077 is a 2-way high power reactive power divider that operates from 10 to 40 GHz and can handle up to 12 Watts (CW) with 1.8 dB max insertion loss and 12 dB min isolation. The package interface uses 2.92mm female connectors and is REACH and RoHS compliant.

Electrical Specifications

Design	Reactive
Number of Output Ports	2

Description	Minimum	Typical	Maximum	Units
Frequency Range	10		40	GHz
Impedance		50		Ohms
Input VSWR			1.9:1	
Output VSWR			1.9:1	
Insertion Loss			1.8	dB
Isolation	12			dB
Amplitude Balance			0.8	dB
Phase Balance			12	Degrees
Input Power (CW)			12	Watts
derated linearly to 10% at +100°C				

Electrical Specification Notes:

Max input power rated for load VSWR better than 1.50:1.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2 Way 2.92mm Power Divider From 10 GHz to 40 GHz Rated at 12 Watts PE2077](#)



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Mechanical Specifications

Size

Length	1 in [25.4 mm]
Width	1 in [25.4 mm]
Height	0.37 in [9.4 mm]
Weight	0.068 lbs [30.84 g]

Housing Material and Plating

Aluminum

Configuration

Package Type	Connectorized
Input Connector	2.92mm Female
Input Connector Specification	MIL-STD-348
Output Connectors	2.92mm Female
Output Connectors Specification	MIL-STD-348

Mechanical Specification Notes:

2.92mm connectors mate both electrically and mechanically with all 3.5mm and SMA connectors.

Environmental Specifications

Temperature

Operating Range	-54 to +100 deg C
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Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant	
REACH Compliant	12/17/2015

Plotted and Other Data

Notes:

2 Way 2.92mm Power Divider From 10 GHz to 40 GHz Rated at 12 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.

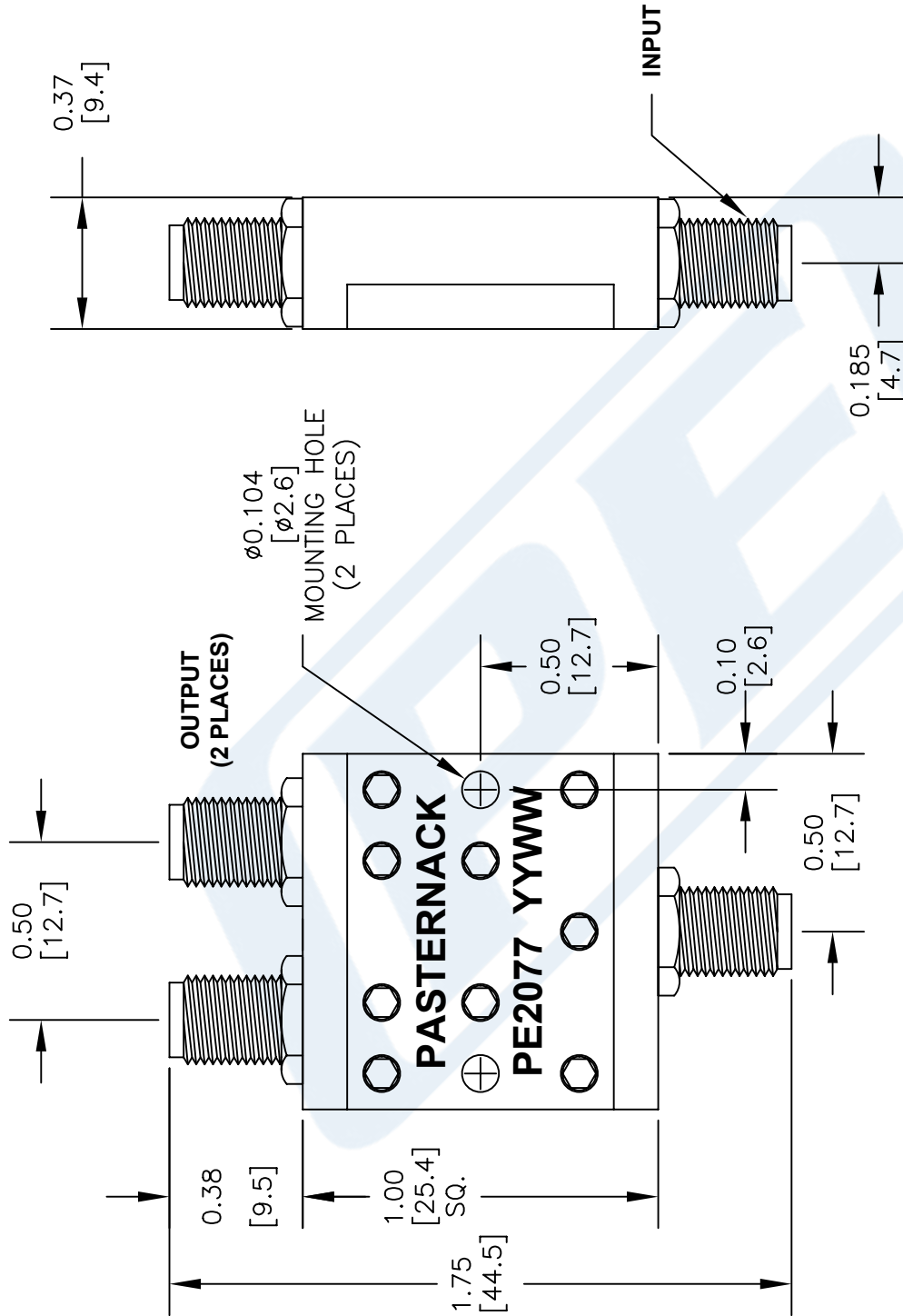
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2 Way 2.92mm Power Divider From 10 GHz to 40 GHz Rated at 12 Watts PE2077](http://www.pasternack.com/2-way-2.92mm-power-divider-10-40-ghz-12-watts-pe2077-p.aspx)

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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.

PE2077 CAD Drawing

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STANDARD TOLERANCES

.X ±0.1
.XX ±0.05
.XXX ±0.03

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

DWG TITLE

PE2077

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 040116

SCALE N/A

SIZE A

3045