4 Way SMA Wilkinson Power Divider From 2 GHz to 18 GHz Rated at 10 Watts

**Power Dividers Technical Data Sheet**

**Features**
- 4-Way Power Divider
- Wilkinson Design
- 2 to 18 GHz Frequency Range
- Max Power 10 Watts (CW)
- Insertion Loss < 2 dB
- Isolation > 15 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 PE2029 is a 4-way Wilkinson power divider that operates from 2 to 18 GHz and can handle up to 10 Watts (CW) with 2 dB max insertion loss and 15 dB min isolation. The package interface uses SMA female connectors and is REACH and RoHS compliant.

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>2</td>
<td></td>
<td>18</td>
<td>GHz</td>
</tr>
<tr>
<td>Impedance</td>
<td></td>
<td>50</td>
<td></td>
<td>Ohms</td>
</tr>
<tr>
<td>Input VSWR</td>
<td></td>
<td>1.6:1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output VSWR</td>
<td></td>
<td>1.6:1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insertion Loss</td>
<td></td>
<td>2</td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Isolation</td>
<td></td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input Power (CW)</td>
<td></td>
<td>10</td>
<td></td>
<td>Watts</td>
</tr>
</tbody>
</table>

**Electrical Specification Notes:**
Max input power rated for load VSWR of 1.25:1 or better.

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 2 GHz to 18 GHz Rated at 10 Watts PE2029
4 Way SMA Wilkinson Power Divider From
2 GHz to 18 GHz Rated at 10 Watts

Power Dividers Technical Data Sheet PE2029

Mechanical Specifications

<table>
<thead>
<tr>
<th>Size</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>2.85 in [72.39 mm]</td>
</tr>
<tr>
<td>Width</td>
<td>2 in [50.8 mm]</td>
</tr>
<tr>
<td>Height</td>
<td>0.38 in [9.65 mm]</td>
</tr>
<tr>
<td>Weight</td>
<td>0.247 lbs [112.04 g]</td>
</tr>
</tbody>
</table>

Configuration

| Package Type   | Connectorized |
| Input Connector| SMA Female    |
| Output Connectors| SMA Female   |

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

- RoHS Compliant
- REACH Compliant 12/17/2015

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: 4 Way SMA Wilkinson Power Divider From 2 GHz to 18 GHz Rated at 10 Watts PE2029
4 Way SMA Wilkinson Power Divider From 2 GHz to 18 GHz Rated at 10 Watts

**Power Dividers Technical Data Sheet**

Typical Performance Data

**Insertion Loss**

- -5.0 dB
- -4.5 dB
- -4.0 dB
- -3.5 dB
- -3.0 dB
- -2.5 dB
- -2.0 dB
- -1.5 dB
- -1.0 dB
- -0.5 dB
- 0.0 dB

Freq (GHz)

<table>
<thead>
<tr>
<th>dB</th>
<th>2</th>
<th>3.6</th>
<th>5.2</th>
<th>6.8</th>
<th>8.4</th>
<th>10</th>
<th>11.6</th>
<th>13.2</th>
<th>14.8</th>
<th>16.4</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>dB</td>
<td>-5.0</td>
<td>-4.5</td>
<td>-4.0</td>
<td>-3.5</td>
<td>-3.0</td>
<td>-2.5</td>
<td>-2.0</td>
<td>-1.5</td>
<td>-1.0</td>
<td>-0.5</td>
<td>0.0</td>
</tr>
</tbody>
</table>

**Output**

- Input-Output 1
- Input-Output 2
- Input-Output 3
- Input-Output 4

**Isolation**

- -40 dB
- -30 dB
- -20 dB
- -10 dB
- 0 dB

Freq (GHz)

<table>
<thead>
<tr>
<th>dB</th>
<th>2</th>
<th>3.6</th>
<th>5.2</th>
<th>6.8</th>
<th>8.4</th>
<th>10</th>
<th>11.6</th>
<th>13.2</th>
<th>14.8</th>
<th>16.4</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>dB</td>
<td>-40</td>
<td>-30</td>
<td>-20</td>
<td>-10</td>
<td>0</td>
<td>-20</td>
<td>-10</td>
<td>0</td>
<td>-20</td>
<td>-10</td>
<td>0</td>
</tr>
</tbody>
</table>

**Output**

- Output 1-2
- Output 3-4

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 2 GHz to 18 GHz Rated at 10 Watts PE2029
4 Way SMA Wilkinson Power Divider From 2 GHz to 18 GHz Rated at 10 Watts

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 2 GHz to 18 GHz Rated at 10 Watts PE2029

Pasterock Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451
Sales@Pasterrock.com • Techsupport@Pasterrock.com
© 2016 Pasterock Enterprises All Rights Reserved
4 Way SMA Wilkinson Power Divider From 2 GHz to 18 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 2 GHz to 18 GHz Rated at 10 Watts PE2029


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.
4 Way SMA Wilkinson Power Divider From 2 GHz to 18 GHz Rated at 10 Watts