2 Way SMA Wilkinson Power Divider From 12 GHz to 18 GHz Rated at 10 Watts

Power Dividers Technical Data Sheet

PE2023

Features
• 2-Way Power Divider
• Wilkinson Design
• 12 to 18 GHz Frequency Range

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 PE2023 is a 2-way Wilkinson power divider that operates from 12 to 18 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

<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>12</td>
<td>18</td>
<td>GHz</td>
<td></td>
</tr>
<tr>
<td>Impedance</td>
<td>50</td>
<td></td>
<td>Ohms</td>
<td></td>
</tr>
<tr>
<td>Input VSWR</td>
<td>1.35:1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output VSWR</td>
<td>1.35:1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>0.6</td>
<td></td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>Isolation</td>
<td>20</td>
<td></td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>Input Power (CW)</td>
<td>10</td>
<td></td>
<td>Watts</td>
<td></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: 2 Way SMA Wilkinson Power Divider From 12 GHz to 18 GHz Rated at 10 Watts PE2023
Mechanical Specifications

Size
Length: 1 in [25.4 mm]
Width: 1 in [25.4 mm]
Height: 0.5 in [12.7 mm]
Weight: 0.068 lbs [30.84 g]

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:
2 Way SMA Wilkinson Power Divider From 12 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.

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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.
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