Plug-In Two Way Power Divider
5-500 MHz

Features
- Low Cost
- Convenient Plug-In Mounting
- Impedance: 50 Ohms Nominal
- Maximum Power Rating or Input Power: 1 Watt Max.
- Internal Load Dissipation: 0.125 Watts Max.
- MIL-STD-202 Screening Available

Description
A Power Divider is ideally a lossless reciprocal device which can also perform vector summation of two or more signals and thus is sometimes called a power combiner or summer.

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS-318 PIN</td>
<td>RH-1</td>
</tr>
</tbody>
</table>
## Electrical Specifications

1. All specifications apply with 50 ohm source and load impedance.
This product contains elements protected by United States Patent Number 3,428,920.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Test Conditions</th>
<th>Frequency</th>
<th>Units</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss</td>
<td>Less Coupling</td>
<td>10 - 200 MHz</td>
<td>dB</td>
<td>—</td>
<td>—</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 - 500 MHz</td>
<td>dB</td>
<td>—</td>
<td>—</td>
<td>1.0</td>
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<tr>
<td>Isolation</td>
<td>—</td>
<td>5 - 500 MHz</td>
<td>dB</td>
<td>18</td>
<td>—</td>
<td>—</td>
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<tr>
<td>Amplitude Balance</td>
<td>—</td>
<td>5 - 500 MHz</td>
<td>dB</td>
<td>—</td>
<td>—</td>
<td>0.2</td>
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<tr>
<td>Phase Balance</td>
<td>—</td>
<td>5 - 500 MHz</td>
<td>°</td>
<td>—</td>
<td>—</td>
<td>2</td>
</tr>
<tr>
<td>VSWR</td>
<td>All Ports</td>
<td>5 - 500 MHz</td>
<td>Ratio</td>
<td>—</td>
<td>—</td>
<td>1.5:1</td>
</tr>
</tbody>
</table>
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Typical Performance Curves

Insertion Loss

Isolation

VSWR

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