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 $^1$: $T_A = -55^\circ C$ to $+85^\circ C$

<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>
</tr>
<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>

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

**Insertion Loss**

![Insertion Loss Graph]

**Isolation**

![Isolation Graph]

**VSWR**

![VSWR Graph]

Visit www.macom.com for additional data sheets and product information.

For further information and support please visit: https://www.macom.com/support
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