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>

Pin Configuration

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Function</th>
<th>Pin No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Σ</td>
<td>5</td>
<td>Output</td>
</tr>
<tr>
<td>2</td>
<td>GND</td>
<td>6</td>
<td>Output</td>
</tr>
<tr>
<td>3</td>
<td>GND</td>
<td>7</td>
<td>GND</td>
</tr>
<tr>
<td>4</td>
<td>GND</td>
<td>8</td>
<td>GND</td>
</tr>
</tbody>
</table>
## Electrical Specifications

### Parameter | Test Conditions | Frequency | Units | Min | Typ | Max
---|---|---|---|---|---|---
Insertion Loss | Less Coupling | 10 - 200 MHz | dB | — | — | 0.5
 | | 5 - 500 MHz | dB | — | — | 1.0
Isolation | | 5 - 500 MHz | dB | 18 | — | —
Amplitude Balance | | 5 - 500 MHz | dB | — | — | 0.2
Phase Balance | | 5 - 500 MHz | ° | — | — | 2
VSWR | All Ports | 5 - 500 MHz | Ratio | — | — | 1.5:1

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

Isolation

VSWR
Plug-In Two Way Power Divider
5-500 MHz

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