Flatpack Four-Way Power Divider,
0.2 - 300 MHz

Features
- Insertion Loss: 0.5 dB Typical
- VSWR: 1.1:1 Typical Miband
- Impedance: 50 Ohms Nominal
- Maximum Power Rating or Input Power: 1 Watt Max.
- Internal Load Dissipation: 50 Watts Max.
- MIL-STD-883 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-310 PIN</td>
<td>FP-5</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>GND</td>
<td>8</td>
<td>Output</td>
</tr>
<tr>
<td>2</td>
<td>None</td>
<td>9</td>
<td>GND</td>
</tr>
<tr>
<td>3</td>
<td>None</td>
<td>10</td>
<td>Output</td>
</tr>
<tr>
<td>4</td>
<td>Input</td>
<td>11</td>
<td>GND</td>
</tr>
<tr>
<td>5</td>
<td>GND</td>
<td>12</td>
<td>Output</td>
</tr>
<tr>
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<td>None</td>
<td>13</td>
<td>GND</td>
</tr>
<tr>
<td>7</td>
<td>GND</td>
<td>14</td>
<td>Output</td>
</tr>
</tbody>
</table>
## Electrical Specifications

**Parameter** | **Test Conditions** | **Frequency** | **Units** | **Min** | **Typ** | **Max**  
---|---|---|---|---|---|---  
Insertion Loss | Less Coupling | 0.3 - 0.5 MHz | dB | — | — | 1.0  
 | | 0.5 - 100 MHz | dB | — | — | 0.5  
 | | 100 - 300 MHz | dB | — | — | 1.0  
Isolation | | 0.3 - 0.5 MHz | dB | 20 | — | —  
 | | 0.5 - 100 MHz | dB | 25 | — | —  
 | | 100 - 300 MHz | dB | 15 | — | —  
Amplitude Balance | | 0.3 - 0.5 MHz | dB | — | — | 0.2  
 | | 0.5 - 100 MHz | dB | — | — | 0.2  
 | | 100 - 300 MHz | dB | — | — | 0.4  
Phase Balance | | 0.3 - 0.5 MHz | ° | — | — | 1.5  
 | | 0.5 - 100 MHz | ° | — | — | 4.0  
 | | 100 - 300 MHz | ° | — | — | 6.0  
VSWR | All Ports | 0.3 - 0.5 MHz | Ratio | — | — | 2.0:1  
 | | 0.5 - 100 MHz | Ratio | — | — | 1.3:1  
 | | 100 - 300 MHz | Ratio | — | — | 1.4:1  

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**

![Insertion Loss](image1)

**Isolation**

![Isolation](image2)

**VSWR**

![VSWR](image3)
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