3-Way Power Divider
1 - 300 MHz

Features
- Low Loss: 0.5 dB
- Impedance: 50 Ω Nominal
- Power Rating: 1 W Maximum
- Internal Load Dissipation: 0.05 W Maximum
- Flatpack and Connectorized Packages
- 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.

C-8 (DS-308)

Pin Configuration (DS-308)

FP-3 (DS-117)

Pin Configuration (DS-117)

Ordering Information

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DS-113 Electrical Specifications¹: $T_A = -55^\circ C$ to $+85^\circ C$

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Test Conditions</th>
<th>Frequency (MHz)</th>
<th>Units</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
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<tbody>
<tr>
<td>Insertion Loss</td>
<td>Less Coupling</td>
<td>2 - 200</td>
<td>dB</td>
<td>—</td>
<td>—</td>
<td>0.75</td>
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<td></td>
<td></td>
<td>1 - 300</td>
<td></td>
<td>—</td>
<td>—</td>
<td>1.0</td>
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<tr>
<td>Isolation</td>
<td></td>
<td>2 - 200</td>
<td>dB</td>
<td>30</td>
<td>—</td>
<td>—</td>
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<tr>
<td></td>
<td></td>
<td>1 - 300</td>
<td></td>
<td>20</td>
<td>—</td>
<td>—</td>
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<tr>
<td>Amplitude Balance</td>
<td></td>
<td>1 - 300</td>
<td>dB</td>
<td>—</td>
<td>—</td>
<td>0.25</td>
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<tr>
<td>Phase Balance</td>
<td></td>
<td>2 - 200</td>
<td>°</td>
<td>—</td>
<td>—</td>
<td>3</td>
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<td></td>
<td></td>
<td>1 - 300</td>
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<td>—</td>
<td>—</td>
<td>4</td>
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<tr>
<td>VSWR</td>
<td>All Ports</td>
<td>2 - 200</td>
<td>Ratio</td>
<td>—</td>
<td>—</td>
<td>1.3:1</td>
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<td></td>
<td></td>
<td>1 - 300</td>
<td></td>
<td></td>
<td>—</td>
<td>1.5:1</td>
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</table>

1. All specifications apply with 50 $\Omega$ source and load impedance.

Typical Performance Curves

Insertion Loss

Isolation

VSWR

Phase Linearity

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