Coaxial Power Splitter/Combiner

2 Way-0° Resistive 50Ω DC to 18000 MHz

Maximum Ratings
Operating Temperature -55°C to 100°C
Storage Temperature -55°C to 100°C
Power Input (as a splitter) 0.16W max.
Internal Dissipation 0.08W max.

Coaxial Connections
SUM PORT S
PORT 1 1
PORT 2 2

Features
• very wideband, DC to 18000 MHz
• very good phase unbalance, 1 deg. typ.
• excellent amplitude unbalance, 0.1 dB typ.
• rugged shielded case

Applications
• laboratory
• test set-ups

Electrical Specifications

<table>
<thead>
<tr>
<th>FREQUENCY (MHz)</th>
<th>ISOLATION (dB)</th>
<th>INSERTION LOSS (dB) ABOVE 6.0 dB</th>
<th>PHASE UNBALANCE (Degrees)</th>
<th>AMPLITUDE UNBALANCE (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L</td>
<td>M</td>
<td>U</td>
<td>L</td>
</tr>
<tr>
<td>DC-18000</td>
<td>6.2</td>
<td>6.7</td>
<td>7.0</td>
<td>0.3</td>
</tr>
</tbody>
</table>

L = DC-6000 MHz  M = 6000-12000 MHz  U = 12000-18000 MHz

This is a resistive power divider to enable frequency coverage from dc to the highest rated frequency. Since resistive power divider do not provide a high degree of isolation (basically isolation equals the insertion loss between ports), an amplifier such as Mini-Circuits’ ZVA series is recommended when high isolation is required. Matched power rating 0.16W, internal load dissipation 0.08W.

Permanent damage may occur if any of these limits are exceeded.

1. Total Loss = Insertion Loss + 6dB splitter loss.

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Notes:
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2. Electrical specifications and performance data contained herein are based on Mini-Circuits' applicable established test performance criteria and measurement instructions. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, “Standard Terms”). Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits’ website at www.minicircuits.com/MCLStore/terms.jsp.

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