Power Splitters & Dividers
Model 1515 & 1515-1, Broadband Resistive Power Divider

Ruggedized SMA Connectors

Features

• Miniature Size & Lightweight - High power capability and high ambient temperature operation.

• Close Tracking & Low Frequency Sensitivity - Output power symmetry is excellent across the frequency range. Division is 6 dB from matched ports.

Specifications

Nominal Impedance: 50 Ω
Frequency Range: dc 18.0 to GHz
Insertion Loss (between input & either output arm):
6 dB nominal, -0.2 dB, +1.2 to 10 GHz, 1.5 to 18 GHz

Maximum Input Power: 1 watt CW, 1 kilowatt peak (5 μsec pulse width, 0.05% duty cycle)

Number of Ports: 3, interchangeable for input and output

Phase Tracking: 5° maximum between ports (J2 & J3) with input connector (J1).

Power Coefficient: <0.005 dB/dB/watt

Amplitude Tracking - J2 & J3 (Maximum)

<table>
<thead>
<tr>
<th>Frequency (GHz)</th>
<th>Tracking</th>
</tr>
</thead>
<tbody>
<tr>
<td>dc - 4</td>
<td>0.2 dB</td>
</tr>
<tr>
<td>4 - 10</td>
<td>0.4 dB</td>
</tr>
<tr>
<td>10 - 18</td>
<td>0.5 dB</td>
</tr>
</tbody>
</table>

Maximum SWR:

<table>
<thead>
<tr>
<th>Frequency (GHz)</th>
<th>SWR</th>
</tr>
</thead>
<tbody>
<tr>
<td>dc - 10</td>
<td>1.25</td>
</tr>
<tr>
<td>10 - 18</td>
<td>1.35</td>
</tr>
</tbody>
</table>

Temperature Coefficient: <0.0004 dB/dB/°C

Temperature Range: -55°C to +125°C

Construction: Nickel plated brass body; stainless steel connectors; gold plated beryllium copper contacts.

Test Data: Insertion loss data supplied at 50 MHz, 12.0, and 18.0 GHz. Other test data can be provided at additional cost.

Connectors:

Model 1515: Male SMA connector port 1 and Female SMA connectors ports 2 and 3.

Model 1515-1: SMA Female connectors all ports-all SMA connectors per MIL STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

Weight: Net 30 g (1 oz)

Physical Dimensions:

Note: All dimensions are given in mm (inches) and are maximum unless otherwise specified.