Power Splitters & Dividers

Model 1593

Broadband Resistive Power Splitter
(Matching), Subminiature, 3.5mm Connectors
dc to 26.5 GHz
1 Watt

Features
These resistive power splitters are intended for RF and wireless applications in which one of the two outputs is included in a leveling loop or is used as a reference in a ratio system, for the purpose of providing an output signal whose source impedance is essentially matched to 50Ω.

Some examples are:
- A dual channel insertion loss measuring system (ratio).
- A parallel IF substitution insertion loss measuring system (ratio or ALC loop).
- A precision power source (ratio or ALC loop).

Specifications

NOMINAL IMPEDANCE: 50 Ω
FREQUENCY RANGE: dc to 26.5 GHz
INSERTION LOSS: 6 dB nominal, 8.5 dB maximum
(MAXIMUM INPUT POWER: 1.0 watts CW (Input Connector only)

AMPLITUDE & PHASE TRACKING (Maximum):

<table>
<thead>
<tr>
<th>Frequency (GHz)</th>
<th>Tracking Amplitude</th>
<th>Tracking Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>dc - 26.5</td>
<td>&lt;0.25 dB</td>
<td>&lt;4°</td>
</tr>
</tbody>
</table>

MAXIMUM INPUT SWR:

<table>
<thead>
<tr>
<th>Frequency (GHz)</th>
<th>Maximum SWR</th>
</tr>
</thead>
<tbody>
<tr>
<td>dc - 26.5</td>
<td>1.25</td>
</tr>
</tbody>
</table>

*When used in a leveling or ratio system.

TEMPERATURE RANGE:

Operating: -55°C to +85°C
Storage: -55°C to +125°C

TEST DATA: Insertion Loss, SWR, and Tracking measurements performed across the frequency band. Test data available at additional cost.

CONNECTORS: Female 3.5mm connectors all ports --mate nondestructively with SMA, 2.92mm and other 3.5mm connectors.

WEIGHT: 25 g (0.9 oz) maximum

PHYSICAL DIMENSIONS: