Power Splitters & Dividers

Models 1580 & 1580-1

Broadband Resistive Power Dividers

3.5mm Connectors

dc to 26.5 GHz

1 Watt

RoHS

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.
- **Test Data** - Provided for 153 frequency points

Specifications

**NOMINAL IMPEDANCE:** 50 Ω

**FREQUENCY RANGE:** dc to 26.5 GHz

**MAXIMUM INPUT POWER:** 1 watt CW, 500 watt pulse

**INSERTION LOSS (between input & one output arm):**
6 dB nominal, 7.5 maximum to 18 GHz and 8.5 maximum to 26.5 GHz.

**NUMBER OF PORTS:** 3, interchangeable for input and output

**TRACKING (Maximum):**

<table>
<thead>
<tr>
<th>Frequency (GHz)</th>
<th>Amplitude</th>
<th>Phase</th>
</tr>
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<tbody>
<tr>
<td>dc - 26.5</td>
<td>0.30 dB</td>
<td>4°</td>
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* Ports 1 to 2 & 1 to 3

**POWER COEFFICIENT:** < 0.005 dB/dB/watt

**TEMPERATURE COEFFICIENT:** < 0.0004 dB/dB/°C

**TEMPERATURE RANGE:** -55°C to +125°C

**MAXIMUM SWR:**

<table>
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<th>Frequency (GHz)</th>
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<tr>
<td>dc - 18</td>
<td>1.20</td>
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<td>18 - 26.5</td>
<td>1.40</td>
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**CONSTRUCTION:** Gold plated brass body; stainless steel connectors; gold plated beryllium copper contacts.

**TEST DATA:** Insertion loss, SWR and Tracking data covering 153 frequency points between 50 MHz and 26.5 GHz.

**CONNECTORS:**

- **Model 1580:** Male 3.5mm connector port 1 and Female 3.5mm connectors ports 2 and 3--all mate nondestructively with SMA, 2.92mm and other 3.5mm connectors.
- **Model 1580-1:** Female 3.5mm connectors all ports--mate nondestructively with SMA, 2.92mm and other 3.5mm connectors.

**PHYSICAL DIMENSIONS:**

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