2 Way Broadband Combiner from 800 MHz to 2.5 GHz Type N

RF Combiners Technical Data Sheet

PE20S0010

**Features**
- 800 to 2500 MHz Frequency
- 800 watt max power
- Insertion Loss: < 0.60 dB
- Phase Balance: ±5 degrees
- Amplitude Balance: ±0.2 dB
- Isolation: > 7.5 dB
- High Power Handling Capability

**Applications**
- Communications Systems
- Power Combining
- PCS, GSM, LTE, Cellular
- Amplifier Systems
- Amplifier Power Combining
- Wireless Infrastructures
- Defence Applications

**Description**
PE20S0010 is a passive 2 way High Power Broadband RF Combiner with 50 ohm connectors operating from 800 to 2500 MHz, with max power at 800 watts. The PE20S0010 has greater than 7.5 dB typical isolation, less than 0.60 dB typical low insertion loss and a Max VSWR of 1.30:1, along with a phase balance of ±5 degrees and an amplitude balance of ±0.20 dB. The RF Combiner operates in a temperature range from -55°C to 85°C, with a footprint of 4.50"x3"x1.15".

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>0.8</td>
<td></td>
<td>2.5</td>
<td>GHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>50</td>
<td></td>
<td></td>
<td>Ohms</td>
</tr>
<tr>
<td>Output VSWR</td>
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<td>1.3:1</td>
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</tr>
<tr>
<td>Insertion Loss</td>
<td></td>
<td></td>
<td>0.6</td>
<td>dB</td>
</tr>
<tr>
<td>Isolation</td>
<td></td>
<td></td>
<td>7.5</td>
<td></td>
</tr>
<tr>
<td>Amplitude Balance</td>
<td>±0.2</td>
<td></td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Phase Balance</td>
<td>±5</td>
<td></td>
<td></td>
<td>Degrees</td>
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<tr>
<td>Power Handling (CW)</td>
<td></td>
<td></td>
<td>800</td>
<td>Watts</td>
</tr>
</tbody>
</table>

**Electrical Specification Notes:**
The device is intended for coherent signal combining.

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 2 Way Broadband Combiner from 800 MHz to 2.5 GHz Type N PE20S0010
2 Way Broadband Combiner from 800 MHz to 2.5 GHz Type N

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PE20S0010

Mechanical Specifications

Size
- Length: 4.5 in [114.3 mm]
- Width: 3 in [76.2 mm]
- Height: 1.15 in [29.21 mm]
- Weight: 1.236 lbs [560.64 g]

Housing Material and Plating
- Aluminum Alloy

Configuration
- Input Connector: N Female
- Output Connectors: SC Female

Environmental Specifications

Temperature
- Operating Range: -55 to +85 deg C

Compliance Certifications
(see product page for current document)

Plotted and Other Data

Notes:

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 2 Way Broadband Combiner from 800 MHz to 2.5 GHz Type N PE20S0010
Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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2 Way Broadband Combiner from 800 MHz to 2.5 GHz Type N

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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2 Way Broadband Combiner from 800 MHz to 2.5 GHz Type N PE20S0010

URL: https://www.pasternack.com/2-way-n-broadband-power-combiner-800-mhz-2.5-ghz-800-watts-pe20s0010-p.aspx

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PE20S0010 CAD Drawing