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Features
- 1000 to 6000 MHz Frequency
- 100 watt max power
- Insertion Loss: < 0.85 dB
- Phase Balance: ±6 degrees
- Amplitude Balance: ±0.30 dB
- Isolation: >6 dB
- High Power Handling Capability

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

Description
PE20S0014 is a passive 4 way High Power Broadband RF Combiner with 50 ohm SMA connectors operating from 1000 to 6000 MHz, with max power at 100 watts. The PE20S0014 has greater than 6 dB typical isolation, less than 0.85 dB typical low insertion loss and a Max VSWR of 1.50:1; along with a phase balance of ±6 degrees and an amplitude balance of ±0.30 dB. The RF Combiner operates in a temperature range from -55°C to 85°C, with a footprint of 4.88”x3.90”x1.17”.

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>1</td>
<td>6</td>
<td>GHz</td>
<td></td>
</tr>
<tr>
<td>Impedance</td>
<td>50</td>
<td></td>
<td>Ohms</td>
<td></td>
</tr>
<tr>
<td>Output VSWR</td>
<td>1.5:1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>0.85</td>
<td></td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>Isolation</td>
<td>6</td>
<td></td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>Amplitude Balance</td>
<td>±0.3</td>
<td></td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>Phase Balance</td>
<td>±6</td>
<td></td>
<td>Degrees</td>
<td></td>
</tr>
<tr>
<td>Power Handling (CW)</td>
<td>100</td>
<td></td>
<td>Watts</td>
<td></td>
</tr>
</tbody>
</table>

**See Electrical Notes**

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: 4 Way Broadband Combiner from 1 GHz to 6 GHz SMA PE20S0014
4 Way Broadband Combiner from 1 GHz to 6 GHz SMA

Mechanical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>4.88 in [123.95 mm]</td>
</tr>
<tr>
<td>Width</td>
<td>3.9 in [99.06 mm]</td>
</tr>
<tr>
<td>Height</td>
<td>1.17 in [29.72 mm]</td>
</tr>
<tr>
<td>Weight</td>
<td>1.534 lbs [695.81 g]</td>
</tr>
<tr>
<td>Housing Material</td>
<td>Aluminum Alloy</td>
</tr>
</tbody>
</table>

Configuration

- Input Connector: SMA Female
- Output Connectors: SMA Female

Environmental Specifications

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

Compliance Certifications
(see product page for current document)

Plotted and Other Data

Notes:

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4 Way Broadband Combiner from 1 GHz to 6 GHz SMA PE20S0014
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[4 Way Broadband Combiner from 1 GHz to 6 GHz SMA PE20S0014](#)

Typical Performance Data

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4 Way Broadband Combiner from 1 GHz to 6 GHz SMA

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RF Combiners Technical Data Sheet

PE20S0014

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4 Way Broadband Combiner from 1 GHz to 6 GHz SMA from Pasternack Enterprises has same day shipment for domestic and international orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 4 Way Broadband Combiner from 1 GHz to 6 GHz SMA PE20S0014

URL: https://www.pasternack.com/4-way-sma-broadband-power-combiner-1-6-ghz-100-watts-pe20s0014-p.aspx

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