PE20S0014 is a passive 4 way High Power Broadband RF Combiner with 50 ohm SMA connectors operating from 1000 to 6000 MHz, with a max input 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".

**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

**Configuration**
- Input Connectors: SMA Female
- Output Connector: SMA Female
- Frequency Range: 1 to 6 GHz
- Design: Reactive
- Number of Input Ports: 4
- Housing Material and Plating: Aluminum Alloy

**Electrical Specifications** (Values at 25°C, sea level)

<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>
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<td>6</td>
<td></td>
<td>GHz</td>
</tr>
<tr>
<td>Impedance</td>
<td></td>
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<td></td>
<td>Ohms</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td></td>
<td></td>
<td>0.85</td>
<td>dB</td>
</tr>
<tr>
<td>Input Power</td>
<td></td>
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<td>Watts</td>
</tr>
<tr>
<td>Output VSWR</td>
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<td></td>
<td>1.5:1</td>
<td></td>
</tr>
<tr>
<td>Isolation</td>
<td></td>
<td></td>
<td>6</td>
<td>dB</td>
</tr>
<tr>
<td>Phase Balance</td>
<td></td>
<td>±6</td>
<td></td>
<td>Degrees</td>
</tr>
<tr>
<td>Flatness</td>
<td></td>
<td>±0.3</td>
<td></td>
<td>dB</td>
</tr>
</tbody>
</table>

**Mechanical Specifications**

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

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 4 Way High Power Broadband Combiner From 1 GHz to 6 GHz Rated at 100 Watts, SMA PE20S0014
## TECHNICAL DATA SHEET

**PE20S0014**

### Size

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</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>
</tbody>
</table>

### Connectors

<table>
<thead>
<tr>
<th>Description</th>
<th>Input Connector</th>
<th>Output Connectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector Material and Plating</td>
<td>Passivated Stainless Steel</td>
<td>Passivated Stainless Steel</td>
</tr>
</tbody>
</table>

### Compliance Certifications

(visit www.Pasternack.com for current document)

- RoHS Compliant

### Plotted and Other Data

**Notes:**
- Values at +25 °C, sea level

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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:

4 Way High Power Broadband Combiner From 1 GHz to 6 GHz Rated at 100 Watts, SMA PE20S0014
4 Way High Power Broadband Combiner From 1 GHz to 6 GHz Rated at 100 Watts, SMA

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 4 Way High Power Broadband Combiner From 1 GHz to 6 GHz Rated at 100 Watts, SMA PE20S0014
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4 Way High Power Broadband Combiner From 1 GHz to 6 GHz Rated at 100 Watts, SMA

TECHNICAL DATA SHEET

4 Way High Power Broadband Combiner From 1 GHz to 6 GHz Rated at 100 Watts, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% 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 High Power Broadband Combiner From 1 GHz to 6 GHz Rated at 100 Watts, SMA PE20S0014

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

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. 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.
4 Way High Power Broadband Combiner From 1 GHz to 6 GHz Rated at 100 Watts, SMA