



RF Combiners Technical Data Sheet

PE20S0003

Features

- 20 to 1000 MHz Frequency
- 300 watt max power
- Insertion Loss: < 0.75 dB
- Phase Balance: ±5 degrees

Applications

- Communications Systems
- Power Combining
- PCS,GSM,LTE, Cellular

- Amplitude Balance: ±0.25 dB
- Isolation: >12 dB
- High Power Handling Capability
- Amplifier Systems
- Amplifier Power Combining
- Wireless Infrastructures
- Defence Applications

Description

PE20S0003 is a passive 4 way High Power Broadband RF Combiner with 50 ohm N connectors operating from 20 to 1000 MHz, with max power at 300 watts. The PE20S0003 has greater than 12 dB typical isolation, less than 0.75 dB typical low insertion loss and a Max VSWR of 1.25:1; along with a phase balance of ± 5 degrees and an amplitude balance of ± 0.25 dB. The RF Combiner operates in a temperature range from -55°C to 85°C, with a foot print of 5.10"x4.72"x1.54".

Reactive

Δ

Electrical Specifications

Design

Number of Input Ports

Description	Minimum	Typical	Maximum	Units
Frequency Range	20		1,000	MHz
Impedance		50		Ohms
Output VSWR			1.25:1	
Insertion Loss			0.75	dB
Isolation	12			dB
Amplitude Balance		±0.25		dB
Phase Balance		±5		Degrees
Power Handling (CW)			300	Watts
**See Electrical Notes				

Specifications by Frequency

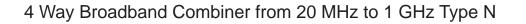
Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.02 to 0.125	0.125 to 1				GHz
Isolation, Min	12	15				dB

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 20 MHz to 1 GHz Type N PE20S0003

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com

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

Mechanical Specifications

Size Length Width Height

Weight

Housing Material and Plating

Configuration Input Connector Output Connectors

Environmental Specifications

Temperature Operating Range 5.1 in [129.54 mm] 4.72 in [119.89 mm] 1.54 in [39.12 mm] 2.59 lbs [1.17 kg]

Aluminum Alloy

N Female N Female

-55 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data Notes:

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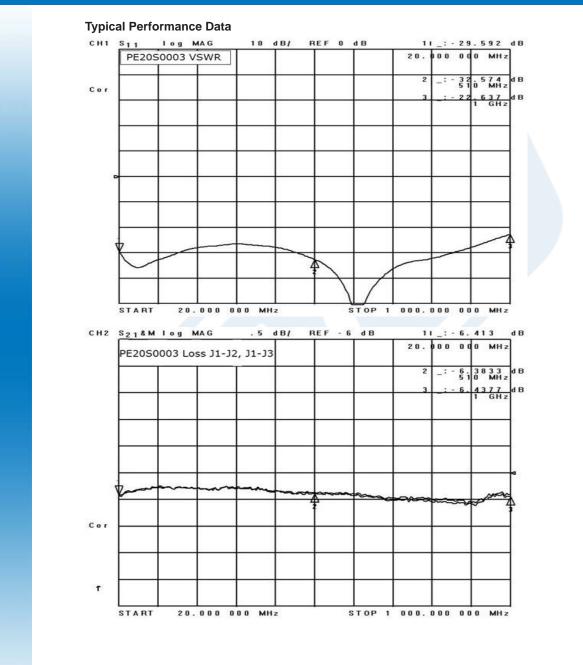
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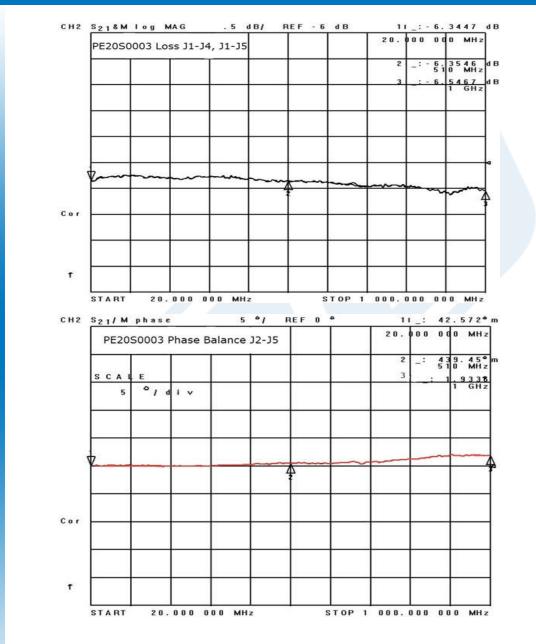
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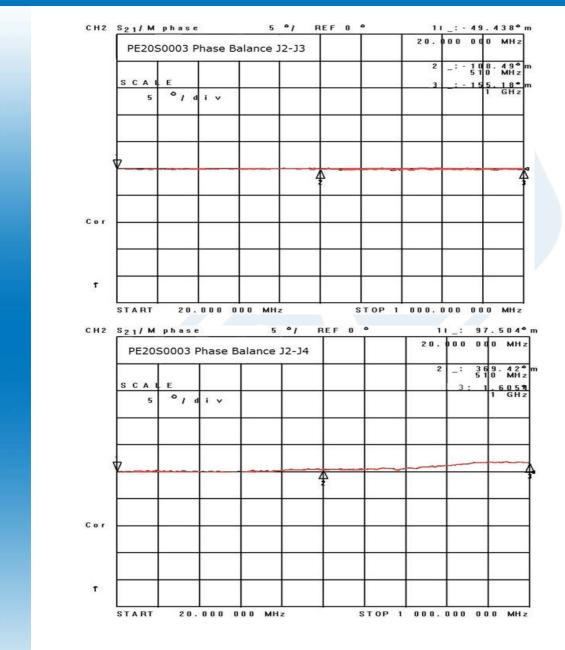
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PE20S0003

4 Way Broadband Combiner from 20 MHz to 1 GHz Type N



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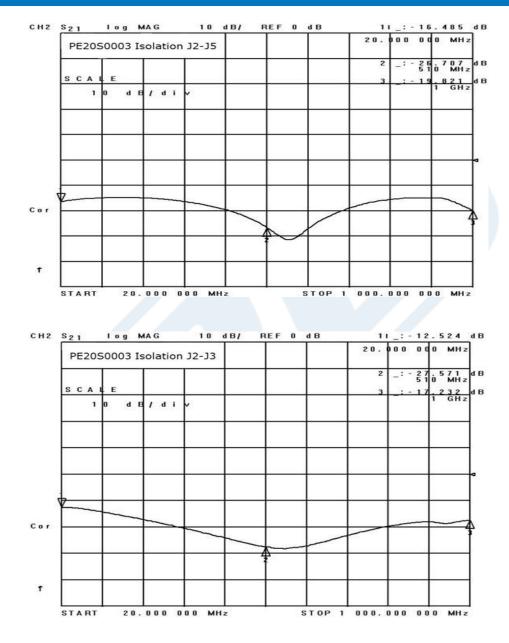
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4 Way Broadband Combiner from 20 MHz to 1 GHz Type N



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4 Way Broadband Combiner from 20 MHz to 1 GHz Type N 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.

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URL: https://www.pasternack.com/4-way-n-broadband-power-combiner-20-1000-mhz-300-watts-pe20s0003-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.

PE20S0003 CAD Drawing

4 Way Broadband Combiner from 20 MHz to 1 GHz Type N

