

4 Way Broadband Combiner from 700 MHz to 6 GHz SMA Female Input and N-Type Female Output rated 300 Watts



PE20S0031

Features

- 0.7 to 6 GHz Frequency
- 300 watt max power
- Insertion Loss: < 1.1 dB
- Phase Balance: ± 7 degrees
- Amplitude Balance: ± 0.4 dB
- Isolation: >6.5 dB
- High Power Handling Capability

Applications

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

Description

PE20S0031 is a passive 4 way High Power Broadband RF Combiner with 50 ohm SMA and N-Type connectors operating from 0.7 to 6 GHz, with max power at 300 watts. The PE20S0031 has greater than 6.5 dB typical isolation, less than 1.1 dB typical low insertion loss and a Max VSWR of 1.35:1; along with a phase balance of ± 7 degrees and an amplitude balance of ± 0.4 dB. The RF Combiner operates in a temperature range from -55°C to 85°C.

Electrical Specifications

Design
Number of Input Ports

Reactive
4

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.7		6	GHz
Impedance		50		Ohms
Input VSWR			1.35:1	
Output VSWR			1.35:1	
Insertion Loss			1.1	dB
Isolation	6.5			dB
Amplitude Balance		± 0.4		dB
Phase Balance		± 7		Degrees
Power Handling (CW)			300	Watts

Mechanical Specifications

Size

Length 5.2 in [132.08 mm]

Width 3.9 in [99.06 mm]

Height 1.1 in [27.94 mm]

Weight 1.76 lbs [798.32 g]

Configuration

Package Type Connectorized

Input Connector SMA Female

Output Connectors N Female

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Environmental Specifications

Temperature

Operating Range

-55 to +85 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data

4 Way Broadband Combiner from 700 MHz to 6 GHz SMA Female Input and N-Type Female Output rated 300 Watts 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 700 MHz to 6 GHz SMA Female Input and N-Type Female Output rated 300 Watts PE20S0031](#)

URL: <https://www.pasternack.com/4-way-sma-broadband-power-combiner-700-mhz-6-ghz-300-watts-pe20s0031-p.aspx>

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