

4 Way N Power Divider From 0.8 GHz to 2.5 GHz Rated at 300 Watts



Power Dividers Technical Data Sheet

PE20DV1143

Features

- 4-Way Power Divider
- N Female Connectorized Design
- 0.8 to 2.5 GHz Frequency Range
- Max Power 300 Watts (CW)
- Insertion Loss < 0.3 dB
- 6 dB typical Isolation

Applications

- Test and Measurement
- Military Communications
- Commercial Communications
- Wireless Communications
- SATCOM

Description

Pasternack carries a wide selection of power dividers to fit your needs. These components are essential in many systems, allowing the combination of multiple signals or splitting of a single signal into multiple signals with equal magnitude and phase. Pasternack's resistive and Wilkinson power dividers come with excellent performance featuring minimal loss, high isolation and low VSWR. They are available in both narrow and broad bandwidths with a variety of connector types such as 2.92mm, 2.4mm, 1.85mm BNC, N and SMA.

The PE20DV1143 is a 4-way power divider that operates from 0.8 to 2.5 GHz and can handle up to 300 Watts (CW) with 0.3 dB max insertion loss and 6 dB typ isolation. The package interface uses N female connectors.

Electrical Specifications

Number of Output Ports

4

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|---------|---------|--------|
| Frequency Range | 0.8 | | 2.5 | GHz |
| Impedance | | 50 | | Ohms |
| Input VSWR | | 1.2:1 | 1.25:1 | |
| Insertion Loss | | 0.1 | 0.3 | dB |
| Isolation | | 6 | | dB |
| Amplitude Balance | | 0.15 | 0.3 | dB |
| Nominal Power Splitting | | 6 | | dB |
| Input Power (CW) | | | 300 | Watts |
| Input Power (Peak) | | | 3 | kWatts |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4 Way N Female Input Connector Power Divider, From 800 MHz to 2.5 GHz, Rated at 300 Watts PE20DV1143](#)

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Mechanical Specifications

Size

Length

2.18 in [55.37 mm]

Width

1.95 in [49.53 mm]

Height

0.39 in [9.91 mm]

Weight

1.64 lbs [743.89 g]

Housing Material and Plating

Aluminum

Configuration

Package Type

Connectorized

Input Connector

N Female

Output Connectors

N Female

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

Storage Range

-50 to +105 deg C

Humidity

100% RH at 35°C, 95%RH at 40°C

Shock

20G for 11msec half sine wave, 3 axis both directions

Vibration

25gRMS (15 degrees 2KHz) endurance, 1 hour per axis

Altitude

30,000 ft. (Epoxy Sealed Controlled environment)

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

Plotted and Other Data

Notes:

4 Way N Power Divider From 0.8 GHz to 2.5 GHz Rated at 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.

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URL: <https://www.pasternack.com/4-way-n-power-divider-2.5-ghz-pe20dv1143-p.aspx>

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PE20DV1143 CAD Drawing

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