



## 4 Way 1.85mm Power Divider to 70 GHz Rated at 1 Watt

### Power Dividers Technical Data Sheet

**PE20DV1151**

#### Features

- 4-Way Power Divider
- 1.85mm Female Connectorized Design
- DC to 70 GHz Frequency Range
- Max Power 1 Watt (CW)
- Insertion Loss < 17 dB
- Isolation 12.5 dB typical

#### 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 PE20DV1151 is a 4-way power divider that operates from DC to 70 GHz and can handle up to 1 Watt (CW) with 17 dB max insertion loss and 12.5 dB typical isolation. The package interface uses 1.85mm female connectors.

#### Electrical Specifications

Number of Output Ports

4

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		70	GHz
Impedance		50		Ohms
Input VSWR		1.7:1	2:1	
Output VSWR		2:1	3:1	
Insertion Loss		14	17	dB
Isolation		12.5		dB
Amplitude Balance		0.4	1	dB
Phase Balance		7	12	Degrees
Input Power (CW)			1	Watt
Input Power (Peak) 10% Duty Cycle 1us Pulse Width			10	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4 Way 1.85mm Power Divider to 70 GHz Rated at 1 Watt PE20DV1151](#)



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#### Mechanical Specifications

##### Size

Length	1.97 in [50.04 mm]
Width	1.64 in [41.66 mm]
Height	0.39 in [9.91 mm]
Weight	0.094 lbs [42.64 g]

Housing Material and Plating

Aluminum, Nickel

##### Configuration

Package Type	Connectorized
Input Connector	1.85mm Female
Output Connectors	1.85mm 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 1.85mm Power Divider to 70 GHz Rated at 1 Watt 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-1.85mm-power-divider-70-ghz-pe20dv1151-p.aspx>

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# PE20DV1151 CAD Drawing

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