



2 way SMA Power Divider from 220 MHz to 450 MHz Rated at 50 Watts

Power Dividers Technical Data Sheet

PE20DV1203

Features

- 2-Way Power Divider
- SMA Female Connectorized Design
- 220 to 450 MHz Frequency Range
- Max Power 50 Watts (CW)
- Insertion Loss < 0.3 dB
- Isolation > 20 dB

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, BNC, N and SMA.

The PE20DV1203 is a 2-way power divider that operates from 220 to 450 MHz and can handle up to 50 Watts (CW) with 0.3 dB max insertion loss and 20 dB min isolation. The package interface uses SMA female connectors.

Electrical Specifications

Number of Output Ports

2

Description	Minimum	Typical	Maximum	Units
Frequency Range	220		450	MHz
Impedance		50		Ohms
Input VSWR		1.25:1	1.3:1	
Output VSWR		1.15:1	1.2:1	
Insertion Loss		0.2	0.3	dB
Isolation	20	22		dB
Amplitude Balance		0.1	0.2	dB
Phase Balance		1	2	Degrees
Nominal Power Splitting		3		dB
Input Power (CW)			50	Watts
Reverse Power (CW)			5	Watts
Input Power (Peak)			500	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2 way SMA Power Divider from 220 MHz to 450 MHz Rated at 50 Watts PE20DV1203](#)



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Mechanical Specifications

Size

Length	2.34 in [59.44 mm]
Width	3.51 in [89.15 mm]
Height	0.39 in [9.91 mm]
Weight	0.16 lbs [72.57 g]

Housing Material and Plating

Aluminum

Configuration

Input Connector

SMA Female

Output Connectors

SMA 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

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

Altitude

30,000 ft.

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

Plotted and Other Data

Notes:

2 way SMA Power Divider from 220 MHz to 450 MHz Rated at 50 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/0-way-power-divider-450-mhz-pe20dv1203-p.aspx>

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PE20DV1203 CAD Drawing

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