

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.

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](#)

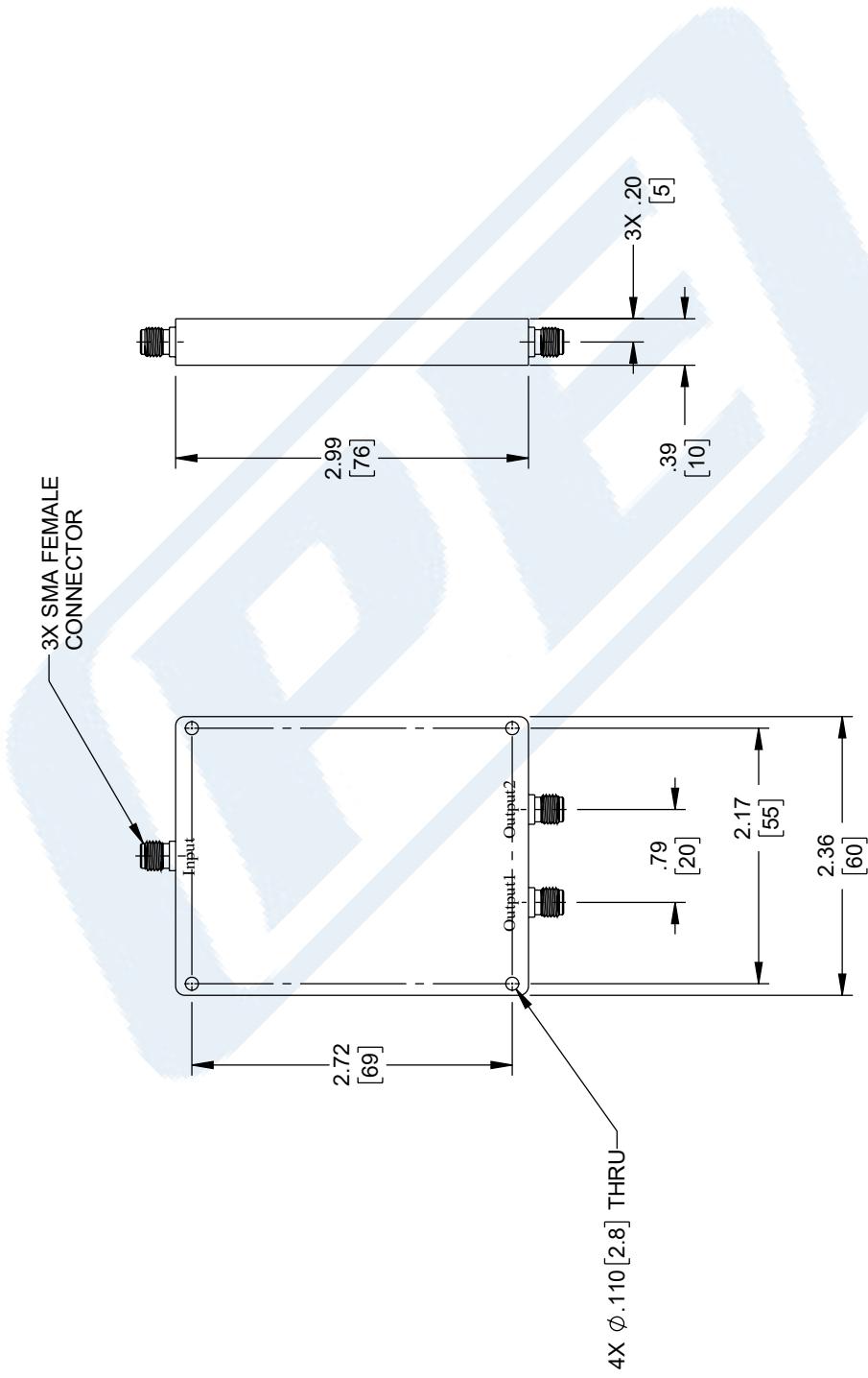
URL: <https://www.pasternack.com/0-way-power-divider-450-mhz-pe20dv1203-p.aspx>

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.

PE20DV1203 CAD Drawing

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ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	02/22/2023	AKRESOWSKI	JNAJERA



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:	FRACTIONS	ANGLES ± 1°
$X = \pm 2$ [5]	$\pm 1/32$	$\pm 1/16$
$XX = \pm .02$ [.5]	$\pm .002$	$\pm .001$
$XXX = .005$ [13]	$\pm .001$	$\pm .0005$

CABLE LENGTH TOLERANCES:

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE

PASTERNACK®
an INFINITI® brand

2 WAY SMA POWER DIVIDER FROM 220 MHZ TO 450 MHZ
PART # 10450-0000000000

WEBSITE: www.Pasternack.com
PHONE: 1.866.727.8376 | 1.949.261.1920

SCRIPTION

SCALES	NONE	SHEET	1 OF 1
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5			

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