

4 Way SMA Power Divider From 12 GHz to 18 GHz Rated at 30 Watts



Power Dividers Technical Data Sheet

PE20DV1145

Features

- 4-Way Power Divider
- SMA Female Connectorized Design
- 12 to 18 GHz Frequency Range
- Max Power 30 Watts (CW)
- Insertion Loss < 1 dB
- Isolation > 18 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, 2.4mm, 1.85mm BNC, N and SMA.

The PE20DV1145 is a 4-way power divider that operates from 12 to 18 GHz and can handle up to 30 Watts (CW) with 1 dB max insertion loss and 18 dB min isolation. The package interface uses SMA female connectors.

Electrical Specifications

Number of Output Ports

4

Description	Minimum	Typical	Maximum	Units
Frequency Range	12		18	GHz
Impedance		50		Ohms
Input VSWR		1.3:1	1.4:1	
Output VSWR		1.2:1	1.3:1	
Insertion Loss		0.7	1	dB
Isolation	18	21		dB
Amplitude Balance		0.3	0.4	dB
Phase Balance		3	5	Degrees
Nominal Power Splitting		6		dB
Input Power (CW)			30	Watts
Reverse Power (CW)			1	Watt
Input Power (Peak)			300	Watts
10% Duty Cycle 1us Pulse Width				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4 Way SMA Power Divider From 12 GHz to 18 GHz Rated at 30 Watts PE20DV1145](#)

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Mechanical Specifications

Size

Length

1.98 in [50.29 mm]

Width

1.98 in [50.29 mm]

Height

0.37 in [9.4 mm]

Weight

0.175 lbs [79.38 g]

Housing Material and Plating

Aluminum

Configuration

Package Type

Connectorized

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

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 SMA Power Divider From 12 GHz to 18 GHz Rated at 30 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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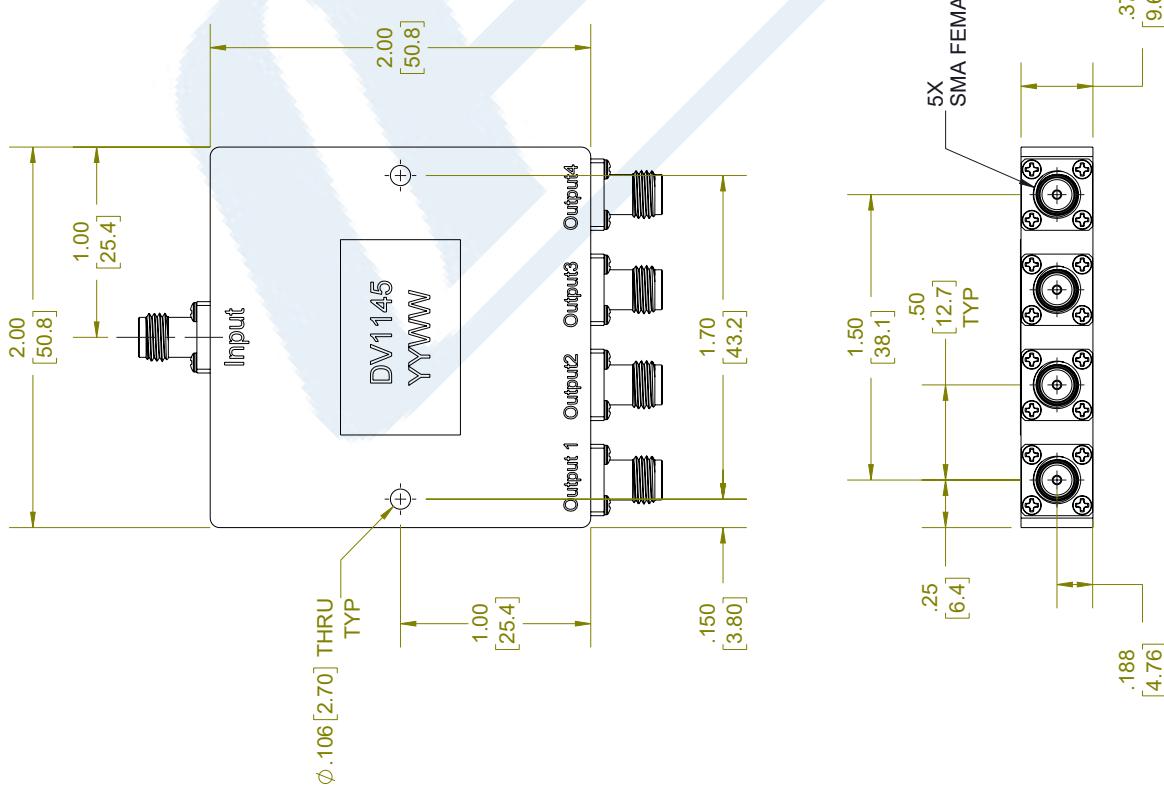
URL: <https://www.pasternack.com/4-way-sma-power-divider-18-ghz-pe20dv1145-p.aspx>

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.

PE20DV1145 CAD Drawing

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ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	3/3/2023	KDANG	SPONG



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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS IN INCHES DIMENSIONS IN [] ARE MILLIMETERS		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5		REV A	
 				SHEET 1 OF 1	
 PASTERNAK® an INFINITI® brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5		REV A	
TOLERANCES: $X = \pm .2$ $[.5]$ FRACTIONS $XX = \pm .02$ $[.13]$ $\pm .132$ $XXX = \pm .005$ $[.13]$ ANGLES $\pm 1^\circ$		CABLE LENGTH TOLERANCES: ≤ 12 [305] ± 60 [1524] $= +1.25\%$ / - > 12 [305] ± 120 [3048] $= +2$ [51] / -0 > 120 [3048] ± 300 [7620] $= +6$ [152] / -0 > 300 [7620] $= +5\%$ / -0		DESCRIPTION 50 Ohm 4 Way SMA Power Divider From 12 GHz to 18 GHz Rated at 30 Watts	
ITEM NO. PE20DV1145	ITEM NO. KDANG	CAGE CODE 53919	DRAWN BY KDANG	SIZE A	
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