



## 3 Way SMA Power Divider From 8 GHz to 18 GHz Rated at 30 Watts

### Power Dividers Technical Data Sheet

**PE20DV1105**

#### Features

- 3-Way Power Divider
- SMA Female Connectorized Design
- 8 to 18 GHz Frequency Range
- Max Power 30 Watts (CW)
- Insertion Loss < 0.7 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 PE20DV1105 is a 3-way power divider that operates from 8 to 18 GHz and can handle up to 30 Watts (CW) with 0.7 dB max insertion loss and 18 dB min isolation. The package interface uses SMA female connectors.

#### Electrical Specifications

Number of Output Ports

3

Description	Minimum	Typical	Maximum	Units
Frequency Range	8		18	GHz
Impedance		50		Ohms
Input VSWR		1.4:1	1.5:1	
Output VSWR		1.3:1	1.5:1	
Insertion Loss		0.5	0.7	dB
Isolation	18	20		dB
Amplitude Balance		0.35	0.6	dB
Phase Balance		3	5	Degrees
Nominal Power Splitting		4.8		dB
Input Power (CW)			30	Watts
Reverse Power (CW)			1	Watt
Input Power (Peak) 10% Duty Cycle 1us Pulse Width			300	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3 Way SMA Power Divider From 8 GHz to 18 GHz Rated at 30 Watts PE20DV1105](#)



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#### Mechanical Specifications

##### Size

Length	1.52 in [38.61 mm]
Width	1.25 in [31.75 mm]
Height	0.39 in [9.91 mm]
Weight	0.11 lbs [49.9 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:

3 Way SMA Power Divider From 8 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/3-way-sma-power-divider-18-ghz-pe20dv1105-p.aspx>

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# PE20DV1105 CAD Drawing

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