

4 Way SMA Power Divider from 6 GHz to 18 GHz Rated at 30 Watts



Power Dividers Technical Data Sheet

PE20DV1048

Features

- Ultra Wide Band Operation
- 30 watt CW Rating
- 6 to 18 GHz

- SMA Female Connector
- Meets Standards for Humidity, Shock, Vibration, Altitude

Applications

- Communications Systems
- Amplifier Systems

- · Amplifier Power Dividing
- Aerospace/Aviation
- Defense Applications

Description

PE20DV1048 is a passive 4 way RF Power Divider with 50 ohm SMA female connectors operating from 6 to 18 GHz, with a max input power of 30 watts. The PE20DV1048 has less than 19 dB Isolation, 1 dB Maximum Insertion loss and a Max VSWR of 1.55:1; along with a phase balance of ±6 degrees and an amplitude balance of ±0.3 dB. The RF Divider operates in a temperature range from -45°C to 85°C and is rated for Humidity, Shock, Vibration, and Altitude. Power dividers have many applications and so perform many valuable functions within the RF/Microwave world. Examples are antenna beam forming, taps for cable distributed systems combining feeds to and from antennae.

Electrical Specifications

Number of Output Ports

4

Description	Minimum	Typical	Maximum	Units
Frequency Range	6		18	GHz
Impedance		50		Ohms
Input VSWR		1.35:1	1.55:1	
Insertion Loss		0.7	1	dB
Isolation	16	19		dB
Amplitude Balance		±0.4	±0.5	dB
Phase Balance		±3	±6	Degrees
Input Power (CW)			30	Watts
Reverse Power (CW)			1	Watt
Input Power (Peak)			300	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 SMA Power Divider from 6 GHz to 18 GHz Rated at 30 Watts PE20DV1048

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451



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Mechanical Specifications

Size

 Length
 2 in [50.8 mm]

 Width
 0.38 in [9.65 mm]

 Height
 2 in [50.8 mm]

 Weight
 0.165 lbs [74.84 g]

Finish Gray

Housing Material and Plating Aluminum

Configuration

Package TypeConnectorizedInput ConnectorSMA FemaleOutput ConnectorsSMA Female

Environmental Specifications

Temperature

Operating Range -45 to +85 deg C Storage Range -55 to +125 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. (Epoxy Sealed Controlled environment)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

4 Way SMA Power Divider from 6 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-pe20dv1048-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.

PE20DV1048 CAD Drawing

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