

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

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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.

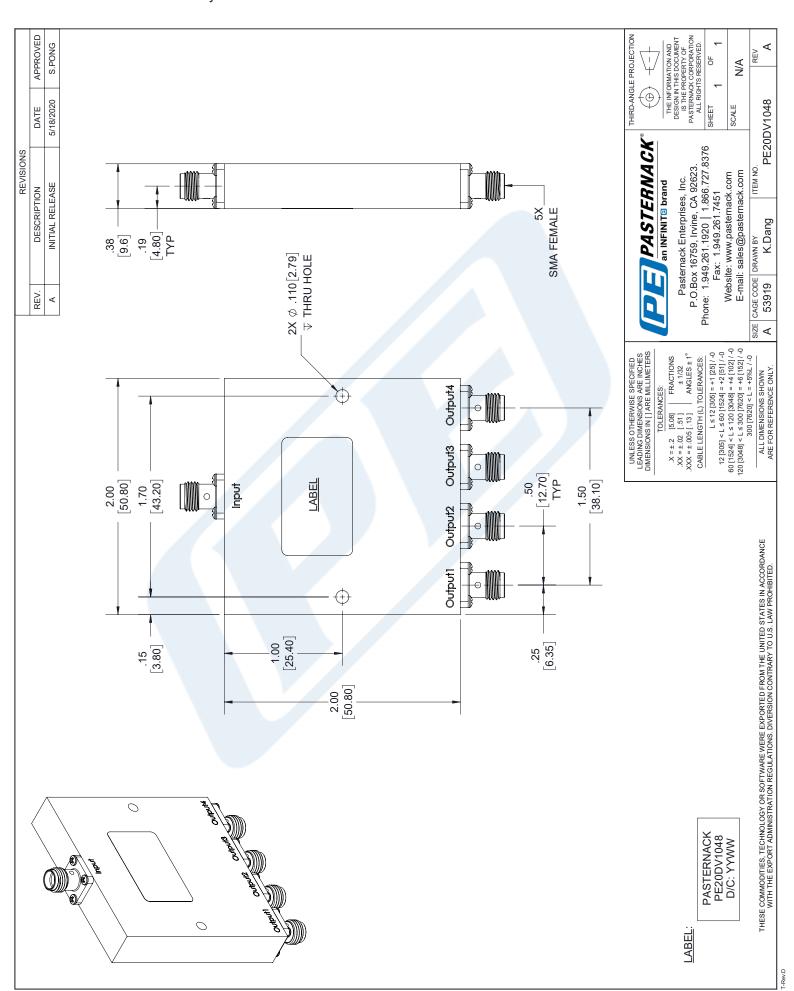
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URL: https://www.pasternack.com/4-way-sma-power-divider-18-ghz-pe20dv1048-p.aspx

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PE20DV1048 CAD Drawing

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