



4 Way SMA Power Divider from 2 GHz to 4 GHz Rated at 30 Watts

Power Dividers Technical Data Sheet

PE20DV1046

Features

- 2 to 4 GHz
- 30 Watts Max Power
- $\pm 3^\circ$ Phase Balance
- 20 dB min Isolation
- 4 way SMA Type divider

Applications

- Communications Systems
- Amplifier Systems
- Amplifier Power Dividing
- Aerospace/Aviation
- Defense Applications

Description

PE20DV1046 is a passive 4 way RF Power Divider with 50 ohm SMA female connectors operating from 2 to 4 GHz, with a max input power of 30 watts. The PE20DV1046 has less than 20 dB Isolation, 0.5 dB Maximum Insertion loss and a Max VSWR of 1.25:1; along with a phase balance of ± 3 degrees and an amplitude balance of ± 0.3 dB. The RF Divider operates in a temperature range from -45°C to 85°C and are 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	2		4	GHz
Impedance		50		Ohms
Input VSWR		1.2:1	1.25:1	
Insertion Loss		0.4	0.5	dB
Isolation	20	23		dB
Amplitude Balance		± 0.2	± 0.3	dB
Phase Balance		± 2	± 3	Degrees
Input Power (CW)			30	Watts
Reverse Power (CW)			2	Watts
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 2 GHz to 4 GHz Rated at 30 Watts PE20DV1046](#)



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Mechanical Specifications

Size

Length	1.69 in [42.93 mm]
Width	0.39 in [9.91 mm]
Height	2.21 in [56.13 mm]
Weight	0.12 lbs [54.43 g]

Finish

Housing Material and Plating	Gray Aluminum
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Configuration

Input Connector	SMA Female
Output Connectors	SMA Female

Environmental Specifications

Temperature

Operating Range	-45 to +85 deg C
Storage Range	-55 to +125 deg C

Humidity

Shock	100% RH at 35°C, 95% RH at 40°C
Vibration	20G for 11msec half sine wave, 3 axis both directions
Altitude	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis 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 2 GHz to 4 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-4-ghz-pe20dv1046-p.aspx>

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