



## 2-Way SMA Power Divider 1-2GHz 30W

### Power Dividers Technical Data Sheet

PE20DV2102

#### Features

- Ultra Wide Band Operation
- 30 watt CW Rating
- 1 to 2 GHz
- SMA Female Connector
- Meets Standards for Humidity, Shock, Vibration, Altitude

#### Applications

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

#### Description

PE20DV2102 is a passive 2 way RF Power Divider with 50 ohm SMA female connectors operating from 1 to 2 GHz, with a max input power of 30 watts. The PE20DV2102 has min 22 dB Isolation, 0.3 dB Maximum Insertion loss and a Max VSWR of 1.12:1; along with a phase balance of  $\pm 2$  degrees and an amplitude balance of  $\pm 0.3$  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

Design	Standard
Number of Output Ports	2

Description	Minimum	Typical	Maximum	Units
Frequency Range	1		2	GHz
Impedance		50		Ohms
Input VSWR		1.15:1	1.2:1	
Output VSWR		1.1:1	1.15:1	
Insertion Loss			0.3	dB
Isolation	22			dB
Amplitude Balance		0.15	0.3	dB
Phase Balance			2	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: [2-Way SMA Power Divider 1-2GHz 30W PE20DV2102](#)



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#### Mechanical Specifications

##### Size

Length	1.1 in [27.94 mm]
Width	1.1 in [27.94 mm]
Height	0.39 in [9.91 mm]
Weight	0.05 lbs [22.68 g]

Finish	Gray
Housing Material and Plating	Aluminum

##### Configuration

Input Connector	SMA Female
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#### 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	30,000ft. Epoxy Sealed, 60,000ft. 1psi min Hermetically Sealed

#### Compliance Certifications (see [product page](#) for current document)

#### Plotted and Other Data

##### Notes:

2-Way SMA Power Divider 1-2GHz 30W 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-2-ghz-pe20dv2102-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.

PE20DV2102 CAD Drawing  
2-Way SMA Power Divider 1-2GHz 30W

