PASTERNACK
an INFINITE brand

8 Way 2.92mm Power Divider From 18 GHz to 40 GHz Rated at 20 Watts

Power Dividers Technical Data Sheet PE20DV1182

Features

- 8-Way Power Divider
- 2.92mm Female Connectorized Design
- 18 to 40 GHz Frequency Range
- Max Power 20 Watts (CW)
- Insertion Loss < 2.5 dB
- Isolation > 16 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 PE20DV1182 is a 8-way power divider that operates from 18 to 40 GHz and can handle up to 20 Watts (CW) with 2.5 dB max insertion loss and 20 dB min isolation. The package interface uses 2.92mm female connectors.

Electrical Specifications

Number of Output Ports 8

Description	Minimum	Typical	Maximum	Units
Frequency Range	18		40	GHz
Impedance		50		Ohms
Input VSWR		1.5:1	1.8:1	
Output VSWR		1.4:1	1.6:1	
Insertion Loss		1.8	2.5	dB
Isolation	16	18		dB
Amplitude Balance		0.4	0.5	dB
Phase Balance		5	6	Degrees
Nominal Power Splitting		9		dB
Input Power (CW)			20	Watts
Reverse Power (CW)			1	Watt
Input Power (Peak) 10% Duty Cycle 1us Pulse Width			100	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 8 Way 2.92mm Power Divider From 18 GHz to 40 GHz Rated at 20 Watts PE20DV1182

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
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Mechanical Specifications

Size

Length	4.06 in [103.12 mm]
Width	1.56 in [39.62 mm]
Height	0.39 in [9.91 mm]
Weight	0.313 lbs [141.97 g]
Housing Material and Plating	Aluminum

Configuration

Package Type	Connectorized
Input Connector	2.92mm Female
Output Connectors	2.92mm Female

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Storage Range	-50 to +105 deg C
Humidity	100% RH at 35ºc, 95%RH at 40ºc
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:

8 Way 2.92mm Power Divider From 18 GHz to 40 GHz Rated at 20 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/8-way-2.92mm-power-divider-40-ghz-pe20dv1182-p.aspx

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PE20DV1182 CAD Drawing

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