8 Way N Female Input Connector Power Divider, From 0.375 GHz to 6 GHz, Rated at 30 Watts

PE20DV1283

Features

- 8-Way Power Divider
- N-Type Female Connectors
- 375 MHz to 6 GHz Frequency Range
- Max Power 30W (CW)
- Min Isolation 14 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 reactive 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. The PE20DV1283 is a 8 way power divider that operates from 0.375 to 6 GHz and can handle up to 30 Watts (CW). This N-Type power divider offers 14 dB min isolation and 1.6:1 max VSWR. The package interface uses N-Type Female inputs on all of the ports.

Electrical Specifications

Number of Output Ports 8

Description	Min	Typ	Max	Units
Frequency Range	0.375		6	GHz
Impedance		50		Ohms
Input VSWR			1.65:1	
Output VSWR			1.4:1	
Insertion Loss			3	dB
Isolation	14			dB
Amplitude Balance			±0.4	dB
Phase Balance			±6	Degrees
Nominal Power Splitting		9		dB
Input Power (CW)			30	Watts
Reverse Power (CW)			2	Watts
Input Power (Peak)			300	Watts
10% Duty Cycle, 1 µSec PW				

Specifications by Frequency

Description	F1	F2	F3	Units
Frequency Range	0.375-0.5	0.5-6		GHz
Input VSWR, Max	1.65:1	1.6:1		
Output VSWR, Max	1.4:1	1.4:1		

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Specifications by Frequency

Description	F1	F2	F3	Units
Insertion Loss, Max	0.7	3		dB
Isolation, Min	14	20		dB

Mechanical Specifications

Size

Length	7.52 in [191.01 mm]
Width	7.4 in [187.96 mm]
Height	0.79 in [20.07 mm]
Weight	0.1 lbs [45.36 g]
Finish	Grey Paint
Housing Material and Plating	Aluminum

Configuration

Input Connector	N Female
Output Connectors	N Female

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	25g RMS (15 degrees) 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:

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Typical Performance Data

8 Way N Female Input Connector Power Divider, From 0.375 GHz to 6 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 8 Way N Female Input Connector Power Divider, From 0.375 GHz to 6 GHz, Rated at 30 Watts PE20DV1283

URL: https://www.pasternack.com/8-way-n-power-divider-6-ghz-pe20dv1283-p.aspx

PE20DV1283 CAD Drawing

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