

4 Way Power Divider N Interface from 1 GHz to 18 GHz Rated at 30 Watts



FMDV1275

Features

- 4-Way Power Divider
- N-Type Female Connectors
- 1 GHz to 18 GHz Frequency Range
- Max Power 30W (CW)
- Min Isolation 16 dB

Applications

- Test and Measurement
- Military Communications
- Commercial Communications
- Wireless Communications
- SATCOM

Description

Fairview Microwave 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. Fairview Microwave'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 FMDV1275 is a 4 way power divider that operates from 1 to 18 GHz and can handle up to 30 Watts (CW). This N-Type power divider offers 16 dB min isolation and 1.7:1 max VSWR. The package interface uses N-Type Female inputs on all of the ports.

Electrical Specifications

Number of Output Ports

4

Description	Min	Typ	Max	Units
Frequency Range	1		18	GHz
Impedance		50		Ohms
Input VSWR		1.5:1	1.7:1	
Output VSWR		1.3:1	1.5:1	
Insertion Loss		2.5	3	dB
Isolation	16	19		dB
Amplitude Balance		±0.4	±0.5	dB
Phase Balance		±5	±6	Degrees
Nominal Power Splitting		6		dB
Input Power (CW)			30	Watts
Reverse Power (CW)			1	Watt
Input Power (Peak)			300	Watts

Specifications by Frequency

Description	F1	F2	F3	Units
Frequency Range	1-8	8-18		GHz
Input VSWR, Max	1.6:1	1.7:1		
Output VSWR, Max	1.5:1	1.5:1		
Insertion Loss, Max	1.8	3		dB

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Specifications by Frequency

Description	F1	F2	F3	Units
Isolation, Typ	18	19		dB
Amp Balance, Max	0.4	0.5		dB

Mechanical Specifications

Size	
Length	3.9 in [99.06 mm]
Width	3.82 in [97.03 mm]
Height	0.79 in [20.07 mm]
Weight	0.2 lbs [90.72 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

4 Way Power Divider N Interface from 1 GHz to 18 GHz Rated at 30 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [4 Way Power Divider N Interface from 1 GHz to 18 GHz Rated at 30 Watts FMDV1275](https://www.fairviewmicrowave.com/4-way-power-divider-n-18-ghz-fmdv1275-p.aspx)

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FMDV1275 CAD Drawing
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