

3 way Power Divider N Connectors from 300 MHz to 500 MHz Rated at 50 Watts

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 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, BNC, N and SMA.

The FMDV1205 is a 3-way power divider that operates from 300 to 500 MHz and can handle up to 50 Watts (CW) with 0.5 dB max insertion loss and 20 dB min isolation. The package interface uses N female connectors.

Electrical Specifications

Number of Output Ports			3	
Description	Min	Typ	Max	Units
Frequency Range	300		500	MHz
Impedance		50		Ohms
Input VSWR		1.3:1	1.35:1	
Output VSWR		1.25:1	1.3:1	
Insertion Loss		0.3	0.5	dB
Isolation	20	23		dB
Amplitude Balance		0.15	0.3	dB
Phase Balance		3	5	Degrees
Nominal Power Splitting		4.8		dB
Input Power (CW)			50	Watts
Reverse Power (CW)			2	Watts
Input Power (Peak) 10% Duty Cycle, 1us PW			500	Watts

Mechanical Specifications

Size	
Length	3.042 in [77.27 mm]
Width	3.432 in [87.17 mm]
Height	0.78 in [19.81 mm]
Weight	2.31 lbs [1.05 kg]
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



Features:

- 3-Way Power Divider
- N Female Connectorized Design
- 300 to 500 MHz Frequency Range
- Max Power 50 Watts (CW)
- Insertion Loss < 0.5 dB
- Isolation > 20 dB

Applications:

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

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Humidity
Shock
Vibration
Altitude

100% RH at 35°C, 95%RH at 40°C
20G for 11msec half sine wave, 3 axis both directions
25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
30,000 ft.

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

Plotted and Other Data

Notes:

3 way Power Divider N Connectors from 300 MHz to 500 MHz Rated at 50 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: [3 way Power Divider N Connectors from 300 MHz to 500 MHz Rated at 50 Watts FMDV1205](#)

URL: <https://www.fairviewmicrowave.com/3-way-power-divider-500-mhz-fmdv1205-p.aspx>

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