



8 Way Power Divider N Interface from 5 MHz to 500 MHz Rated at 10 Watts

FMDV1052 is a passive 8 way RF Power Divider with 50 ohm N female connectors operating from 5 to 500 MHz, with a max input power of 10 watts. The FMDV1052 has less than 20 dB Isolation, 2 dB Maximum Insertion loss and a Max VSWR of 1.4:1; along with a phase balance of ± 2 degrees and an amplitude balance of ± 0.3 dB. The RF Divider operates in a temperature range from -45°C to 85°C and are 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.

Design Number of Output Ports Wilkinson 8

Description	Min	Тур	Max	Units
Frequency Range	5		500	MHz
Impedance		50		Ohms
Input VSWR		1.3:1	1.4:1	
Insertion Loss		1.8	2	dB
Isolation	20	24		dB
Amplitude Balance		±0.2	±0.3	dB
Phase Balance		±1.5	±2	Degrees
Input Power (CW)			10	Watts
Reverse Power (CW)			1	Watt
Input Power (Peak)			100	Watts

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Features:

- 5 to 500 MHz
- 10 Watts Max Power
- ±2° Phase Balance
- 20 dB min Isolation
- 8 way N Type divider

Applications:

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

Mechanical Specifications

Size

Length

Width

Height

Weight

Finish

Housing Material and Plating

Configuration

Input Connector
Output Connectors

Environmental Specifications Temperature

Operating Range Storage Range

Humidity

1.81 in [45.97 mm] 0.79 in [20.07 mm] 7.64 in [194.06 mm]

0.917 lbs [415.94 g]

Gray Aluminum

N Female N Female

-45 to +85 deg C -55 to +125 deg C

100% RH at 35°C, 95% RH at 40°C

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Shock Vibration Altitude 20G for 11msec half sine wave, 3 axis both directions 25g RMS (15 degrees 2KHz) endurance, 1 hour per axis 30,000 ft. (Epoxy Sealed Controlled environment)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

8 Way Power Divider N Interface from 5 MHz to 500 MHz Rated at 10 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: 8 Way Power Divider N Interface from 5 MHz to 500 MHz Rated at 10 Watts FMDV1052

URL: https://www.fairviewmicrowave.com/8-way-power-divider-n-500-mhz-fmdv1052-p.aspx

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