

4 Way Power Divider N Interface from 375 MHz to 6 GHz Rated at 30 Watts

FMDV1050 is a passive 4 way RF Power Divider with 50 ohm N female connectors operating from 375 MHz to 6 GHz, with a max input power of 30 watts. The FMDV1050 has less than 30 dB Isolation, 2 dB Maximum Insertion loss and a Max VSWR of 1.5:1; along with a phase balance of ± 4 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.

Electrical Specifications

Design

Wilkinson

Number of Output Ports

4

Description	Min	Typ	Max	Units
Frequency Range	0.375		6	GHz
Impedance		50		Ohms
Input VSWR		1.4:1	1.5:1	
Insertion Loss			2	dB
Isolation	19	21		dB
Amplitude Balance		± 0.25	± 0.3	dB
Phase Balance		± 3	± 4	Degrees
Input Power (CW)			30	Watts
Reverse Power (CW)			2	Watts
Input Power (Peak)			300	Watts

Mechanical Specifications

Size

Length

3.94 in [100.08 mm]

Width

0.79 in [20.07 mm]

Height

3.62 in [91.95 mm]

Weight

0.9045 lbs [410.27 g]

Finish

Gray

Housing Material and Plating

Aluminum

Configuration

Input Connector

N Female

Output Connectors

N Female

Environmental Specifications

Temperature

Operating Range

-45 to +85 deg C

Storage Range

-55 to +125 deg C

Humidity

100% RH at 35°C,
95% RH at 40°C



Features:

- 375 MHz to 6 GHz
- 30 Watts Max Power
- $\pm 4^\circ$ Phase Balance
- 19 dB min Isolation
- 4 way N Type divider

Applications:

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

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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:

4 Way Power Divider N Interface from 375 MHz to 6 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 375 MHz to 6 GHz Rated at 30 Watts FMDV1050](#)

URL: <https://www.fairviewmicrowave.com/4-way-power-divider-n-6-ghz-fmdv1050-p.aspx>

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