

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

FMDV1051 is a passive 4 way RF Power Divider with 50 ohm N-Type female connectors operating from 1 to 4 GHz, with a max input power of 30 watts. The FMDV1051 has less than 22 dB Isolation. 1.2 dB Maximum Insertion loss and a Max VSWR of 1.4:1; along with a phase balance of ± 5 degrees and an amplitude balance of ±0.4 dB. The RF Divider operates in a temperature range from -45°C to 85°C and is 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.

ectrical Specification Design Number of Output Ports			Wilkinson 4	
Description	Min	Тур	Мах	Units
Frequency Range	1		4	GHz
Impedance		50		Ohms
Input VSWR		1.3:1	1.4:1	
Insertion Loss		0.9	1.2	dB
Isolation	20	22		dB
Amplitude Balance		±0.3	±0.4	dB
Phase Balance		±4	±5	Degrees
Input Power (CW)			30	Watts
Reverse Power (CW)			2	Watts
Input Power (Peak)			300	Watts

FMDV1051 **DATA SHEET**

Features:

- Ultra Wide Band Operation
- · 30 watt CW Rating
- 1 to 4 GHz
- N-Type Female Connector
- Meets Standards for Humidity, Shock, Vibration, Altitude

Applications:

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

Mechanical Specifications

Size Length	1.93 in
Width Height	0.79 in 3.82 in
Weight	0.588 I
Finish Housing Material and Plating	Gray Alumin
Configuration	
Package Type	Connec
Input Connector	N Form

Input Connector **Output Connectors**

Environmental Specifications

Temperature **Operating Range** Storage Range

Humidity

n [49.02 mm] n [20.07 mm] n [97.03 mm] lbs [266.71 g]

num

ectorized N Female N Female

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

100% RH at 35°C, 95% RH at 40°C

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





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

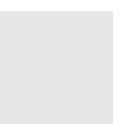
Notes:

4 Way Power Divider N Interface from 1 GHz to 4 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 4 GHz Rated at 30 Watts FMDV1051

URL: https://www.fairviewmicrowave.com/4-way-power-divider-n-4-ghz-fmdv1051-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

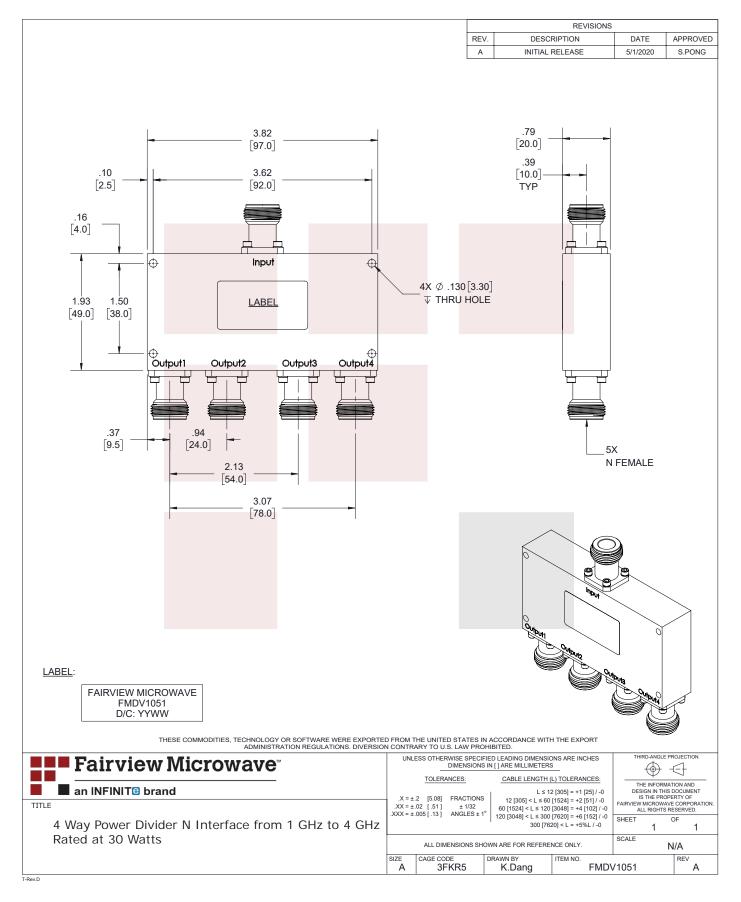


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