

2 Way Power Divider N Connectors Wilkinson From 800 MHz to 2.5 GHz Rated at 50 Watts

FMDV0025 is a passive 2 way RF Power Divider with 50 ohm N female connectors operating from 0.8 to 2.5 GHz, with a max input power of 50 watts. The FMDV0025 has less than 22 dB Isolation, 0.4 dB maximum Insertion loss and a Max VSWR of 1.25:1; along with a phase balance of ± 2 degrees and an amplitude balance of ± 0.2 dB. The RF Divider operates in a temperature range from -40°C to 70°C and meets Military standards for Humidity, Shock, Vibration, Altitude, and Temperature. 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	2			
Description	Min	Typ	Max	Units
Frequency Range	0.8		2.5	GHz
Impedance		50		Ohms
Input VSWR			1.25:1	
Input Return Loss		19		dB
Insertion Loss			0.4	dB
Isolation	22			dB
Amplitude Balance			± 0.2	dB
Phase Balance			± 2	Degrees
Input Power (CW)			50	Watts
Reverse Power (CW)			1	Watts

Features:

- 0.8 to 2.5 GHz
- 50 Watts Max Power
- $\pm 2^{\circ}$ Phase Balance
- 22 dB min Isolation
- 2 way N Type divider
- Meets MIL-STD-202F for Humidity, Shock, Vibration, Altitude, Temperature Cycle

Applications:

- Communications Systems
- CDMA,GSM,LTE
- Amplifier Systems
- Amplifier Power Dividing
- Aviation/Aerospace
- Defense Applications

Mechanical Specifications

Size	
Length	2.047 in [51.99 mm]
Width	1.89 in [48.01 mm]
Height	0.787 in [19.99 mm]
Weight	0.36 lbs [163.29 g]

Configuration

Input Connector	N Female
Output Connectors	N Female

Environmental Specifications

Temperature

Operating Range	-40 to $+70$ deg C
Storage Range	-65 to $+125$ deg C

Humidity

MIL-STD-202F,
 METHOD 103B
 COND. B

Shock

MIL-STD-202F,
 METHOD 213B
 COND. B

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Vibration
 Altitude
 Temperature Cycle

MIL-STD-202F, METHOD 204D COND. B
 MIL-STD-202F, METHOD 105C COND. B
 MIL-STD-202F, METHOD 107D COND. A

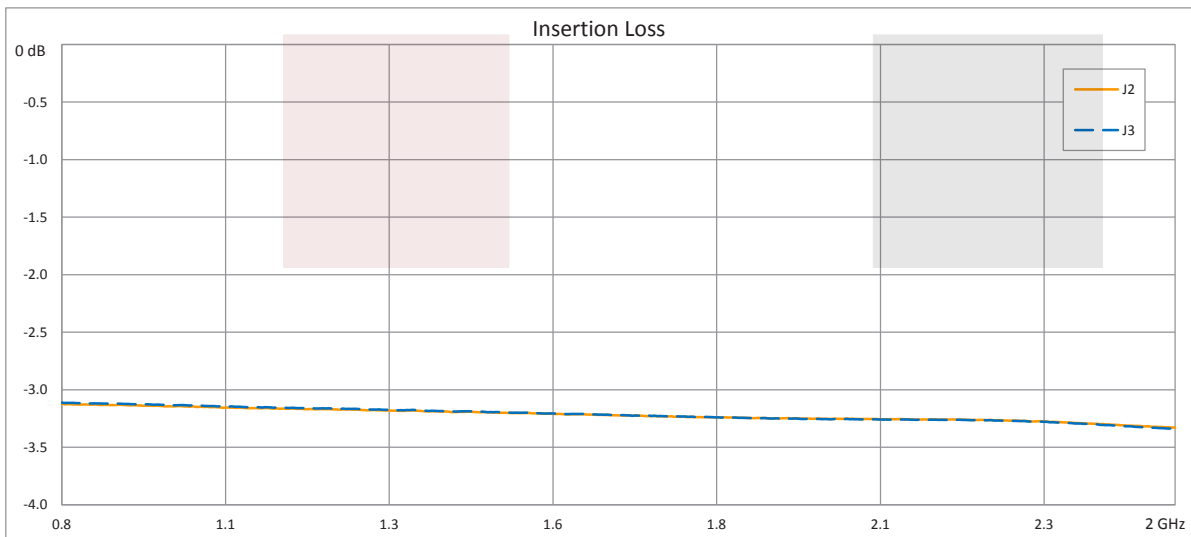
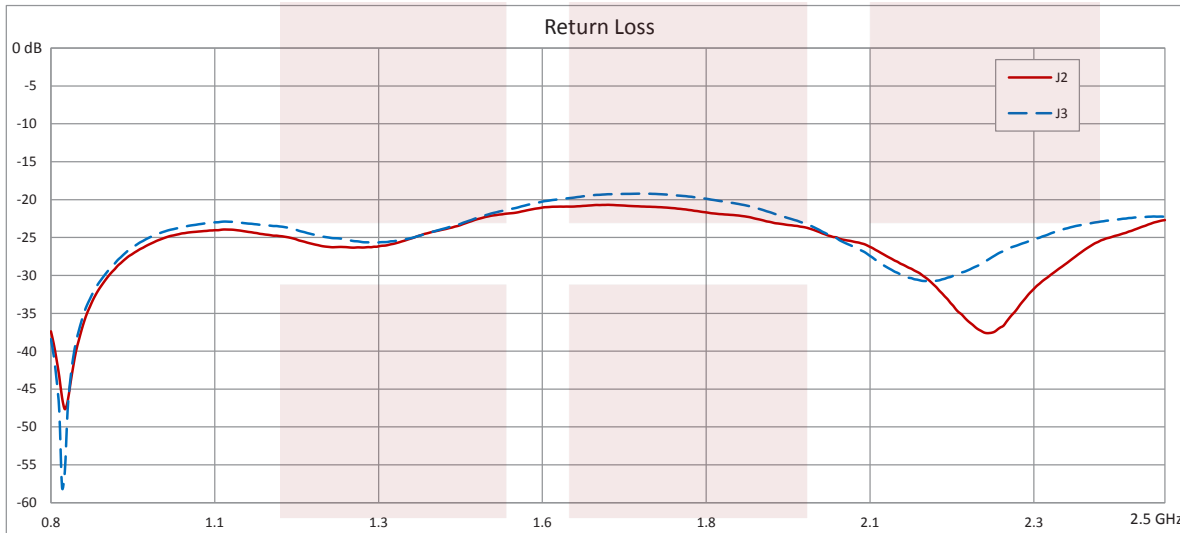
Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant Yes
 REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

Typical Performance Data



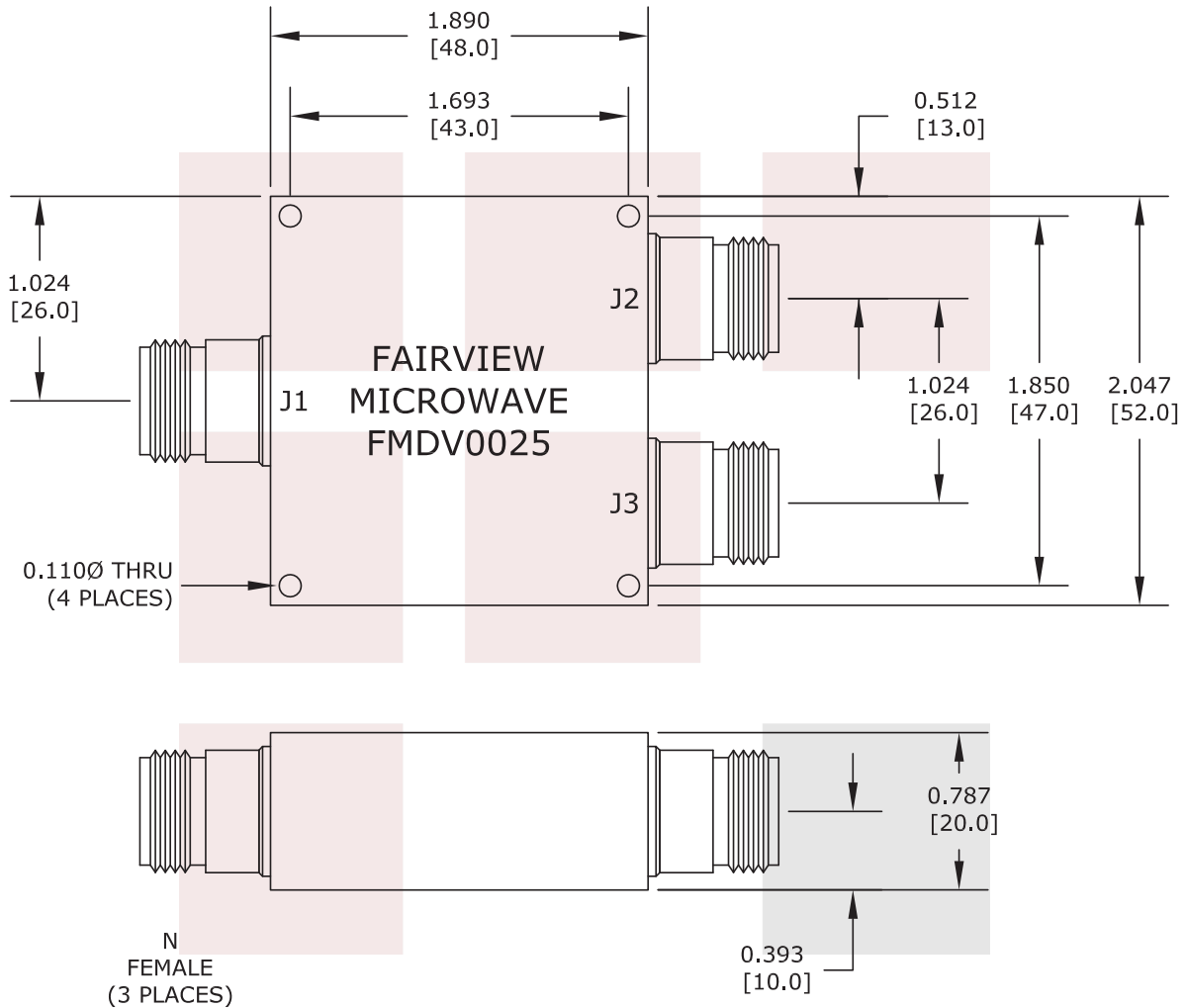
2 Way Power Divider N Connectors Wilkinson From 800 MHz to 2.5 GHz Rated at 50 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2 Way Power Divider N Connectors Wilkinson From 800 MHz to 2.5 GHz Rated at 50 Watts FMDV0025](#)

URL: <http://www.fairviewmicrowave.com/2-way-power-divider-n-wilkinson-2.5-ghz-50-watts-fmdv0025-p.aspx>

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TITLE 2 Way Power Divider N Connectors Wilkinson From 800 MHz to 2.5 GHz Rated at 50 Watts		DWG NO FMDV0025		CAGE CODE 3FKR5	
		CAD FILE 042116	SHEET	SCALE N/A	SIZE A