

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

FMDV0019 is a passive 3 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 FMDV0019 has less than 20 dB Isolation, 0.6 dB Maximum Insertion loss and a Max VSWR of 1.30:1; along with a phase balance of ± 3 degrees and an amplitude balance of ± 0.35 dB. The RF Divider operates in a temperature range from -55°C to 85°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		3		
Description	Min	Typ	Max	Units
Frequency Range	0.8		2.5	GHz
Impedance		50		Ohms
Input VSWR			1.3:1	
Input Return Loss		17		dB
Insertion Loss			0.6	dB
Isolation	20			dB
Amplitude Balance			± 0.35	dB
Phase Balance			± 3	Degrees
Input Power (CW)			50	Watts
Reverse Power (CW)			1	Watts

Features:

- 0.8 to 2.5 GHz
- 50 Watts Max Power
- $\pm 3^{\circ}$ Phase Balance
- 20 dB min Isolation
- 3 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
- Aerospace/Aviation
- Defense Applications

Mechanical Specifications

Size	
Length	3.69 in [93.73 mm]
Width	4.53 in [115.06 mm]
Height	0.875 in [22.23 mm]
Weight	1.03 lbs [467.2 g]

Configuration

Input Connector	N Female
Output Connectors	N Female

Environmental Specifications

Temperature

Operating Range	-55 to $+85$ deg C
Storage Range	-55 to $+100$ 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

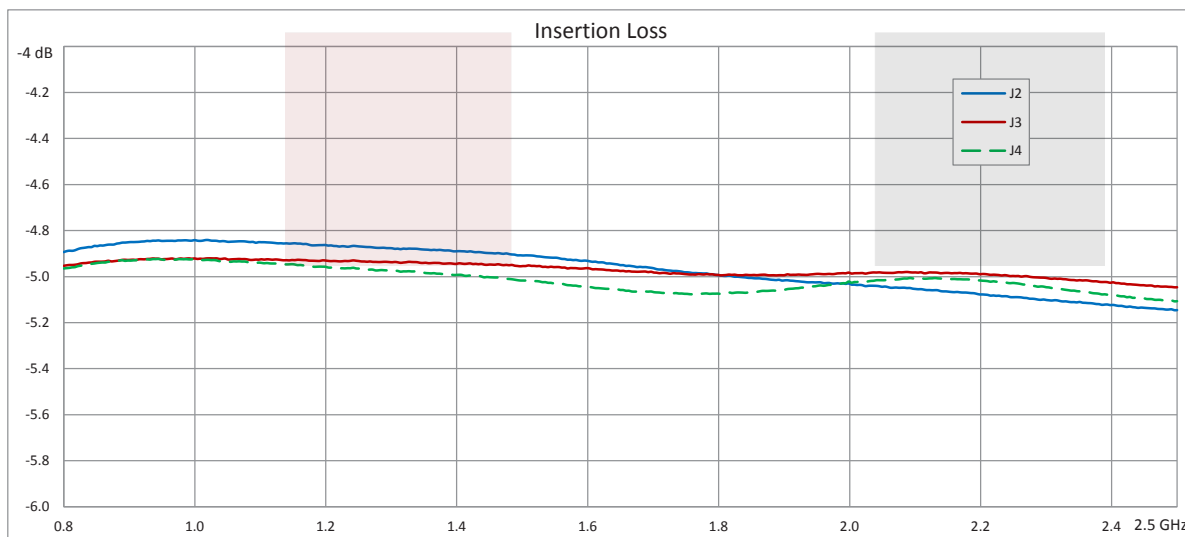
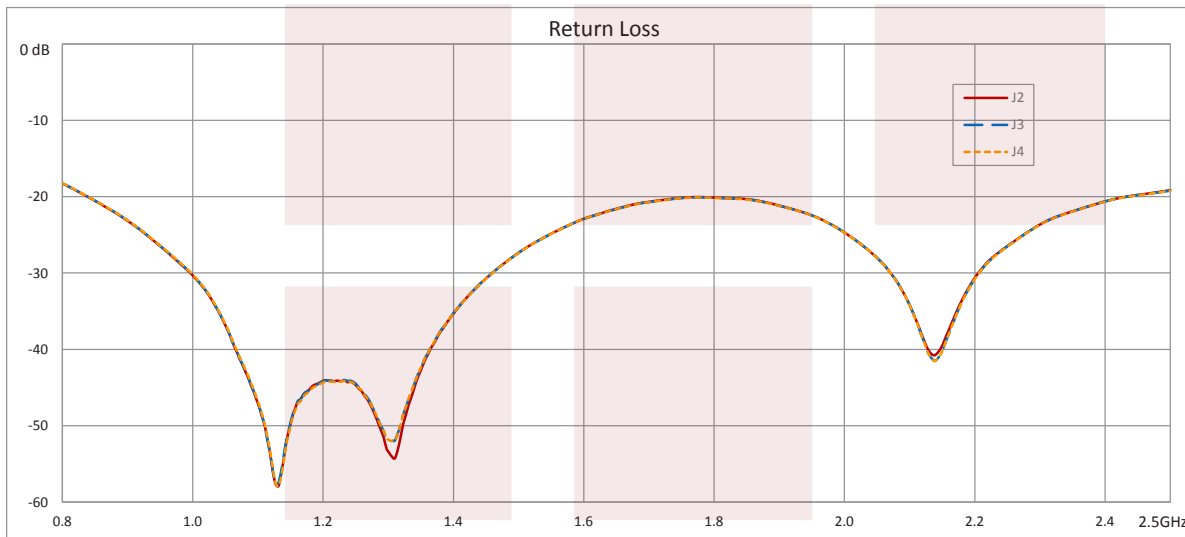
Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant Yes
 REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

Typical Performance Data



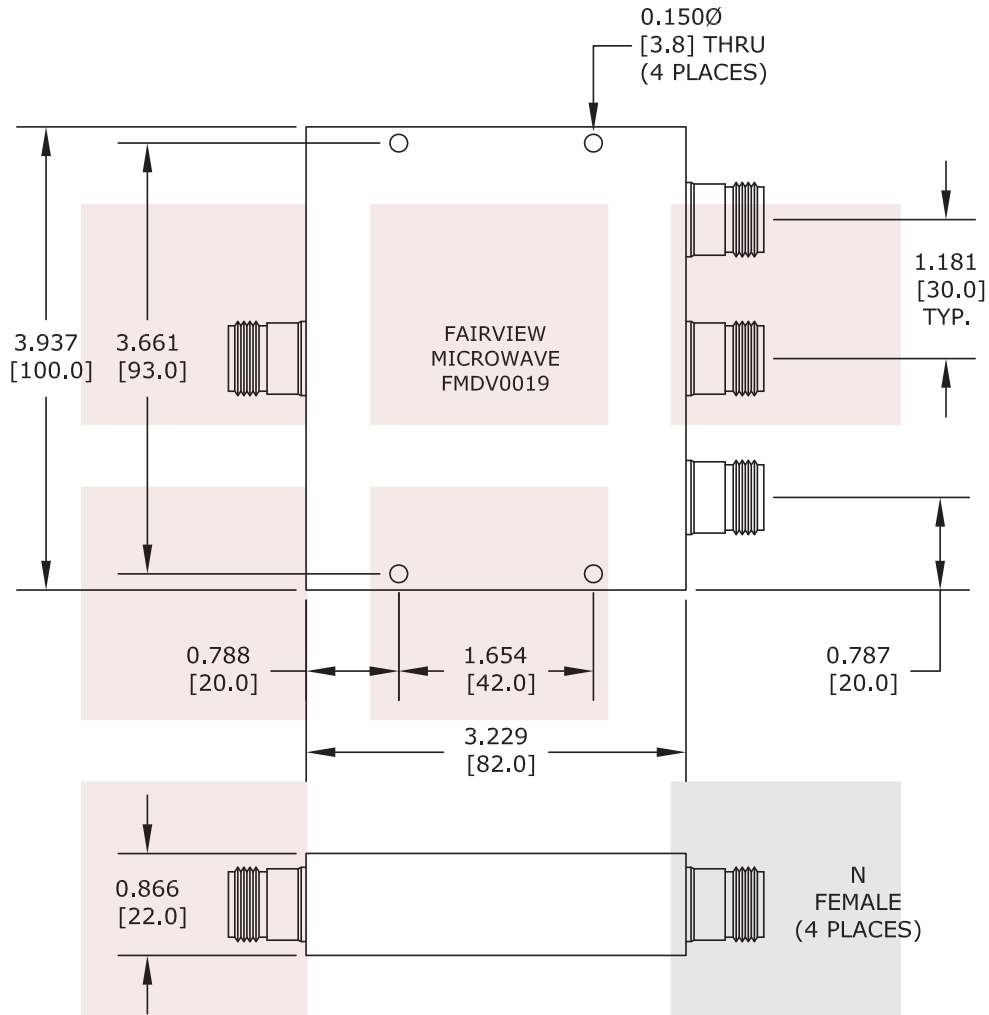
3 Way Power Divider N Connectors Wilkinson From 800 MHz to 2.5 GHz Rated at 50 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [3 Way Power Divider N Connectors Wilkinson From 800 MHz to 2.5 GHz Rated at 50 Watts FMDV0019](#)

URL: <http://www.fairviewmicrowave.com/3-way-power-divider-n-wilkinson-2.5-ghz-50-watts-fmdv0019-p.aspx>

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TITLE 3 Way Power Divider N Connectors Wilkinson From 800 MHz to 2.5 GHz Rated at 50 Watts		DWG NO FMDV0019		CAGE CODE 3FKR5	
CAD FILE	041415	SHEET	SCALE	N/A	SIZE A 2233