

2 Way Power Divider SMA Connectors Wilkinson
From 500 MHz to 2 GHz Rated at 30 Watts

FMDV0022 is a passive 2 way RF Power Divider with 50 ohm SMA female connectors operating from 0.5 to 2 GHz, with a max input power of 30 watts. The FMDV0022 has less than 20 dB Isolation, 0.5 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 -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.



Features:

- 0.5 to 2 GHz
- 30 Watts Max Power
- $\pm 2^{\circ}$ Phase Balance
- 20 dB min Isolation
- 2 way SMA divider
- Meets MIL-STD-202F for Humidity, Shock, Vibration, Altitude, Temperature Cycle

Electrical Specifications

Design	Wilkinson			
Number of Output Ports	2			
Description	Min	Typ	Max	Units
Frequency Range	0.5		2	GHz
Impedance		50		Ohms
Input VSWR			1.25:1	
Output VSWR			1.2:1	
Input Return Loss		19		dB
Output Return Loss		20		dB
Insertion Loss			0.5	dB
Isolation	20			dB
Amplitude Balance			± 0.2	dB
Phase Balance			± 2	Degrees
Input Power (CW)			30	Watts
Reverse Power (CW)			1	Watts

Applications:

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

Mechanical Specifications

Size	
Length	2.13 in [54.1 mm]
Width	1.1 in [27.94 mm]
Height	0.39 in [9.91 mm]
Weight	0.08 lbs [36.29 g]

Configuration

Input Connector	SMA Female
Output Connectors	SMA 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

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Shock
 Vibration
 Altitude
 Temperature Cycle

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

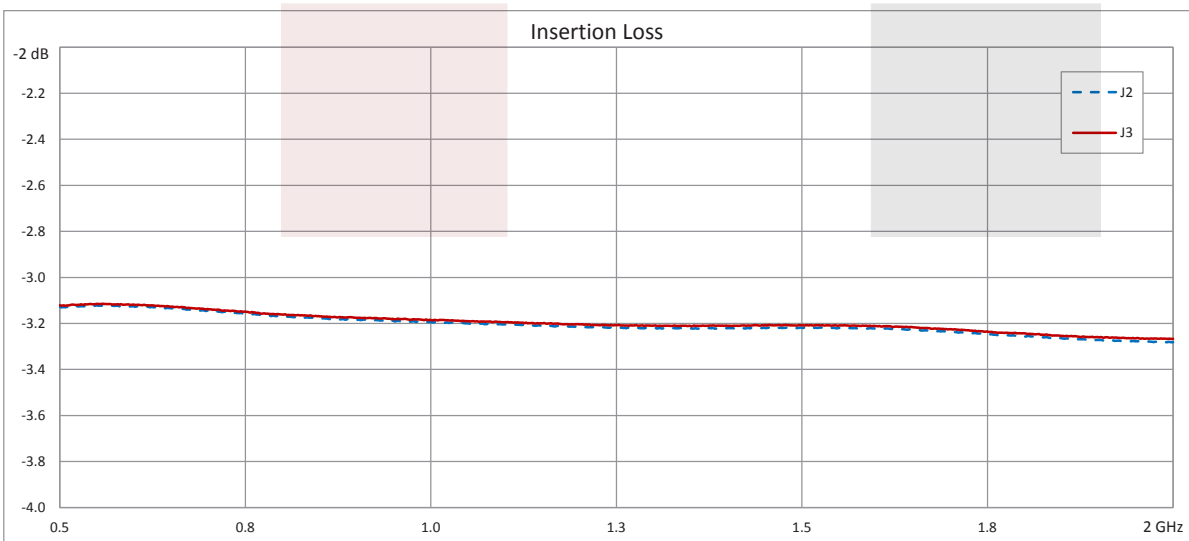
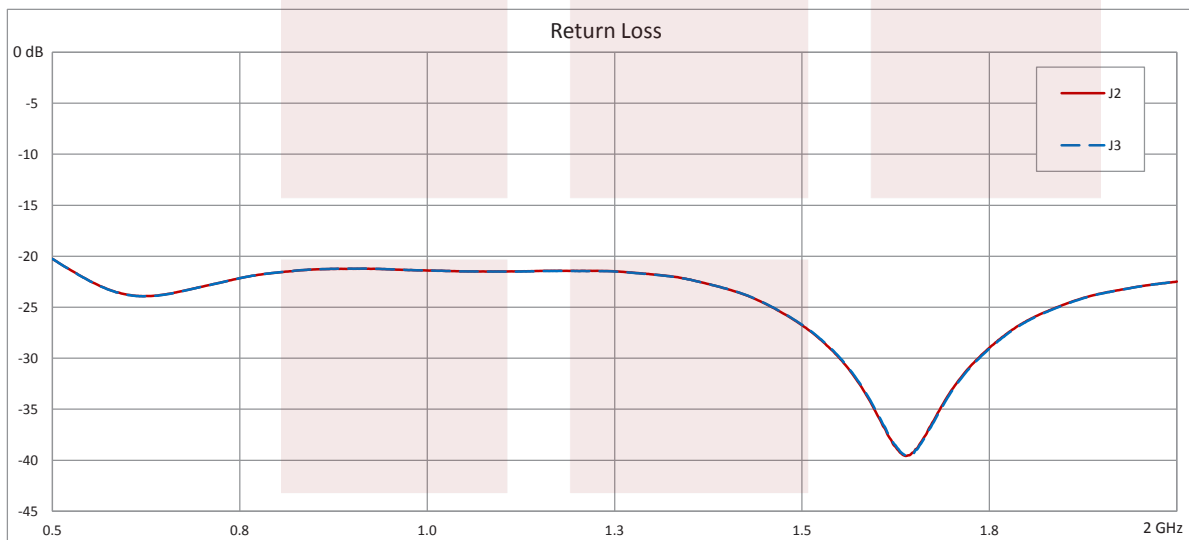
RoHS Compliant
 REACH Compliant

Yes
 12/17/2015

Plotted and Other Data

Notes:

Typical Performance Data

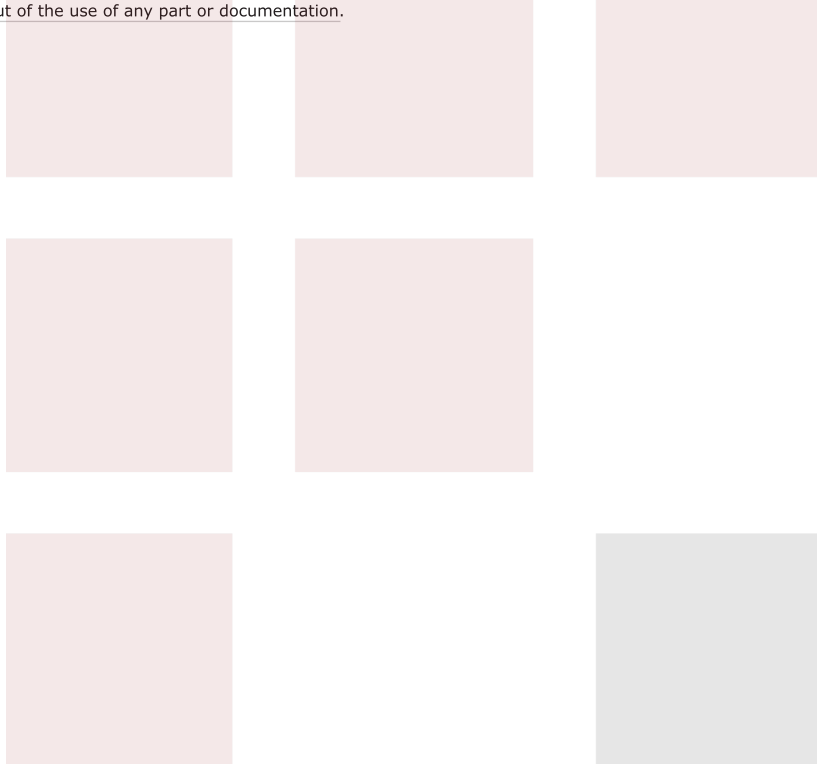


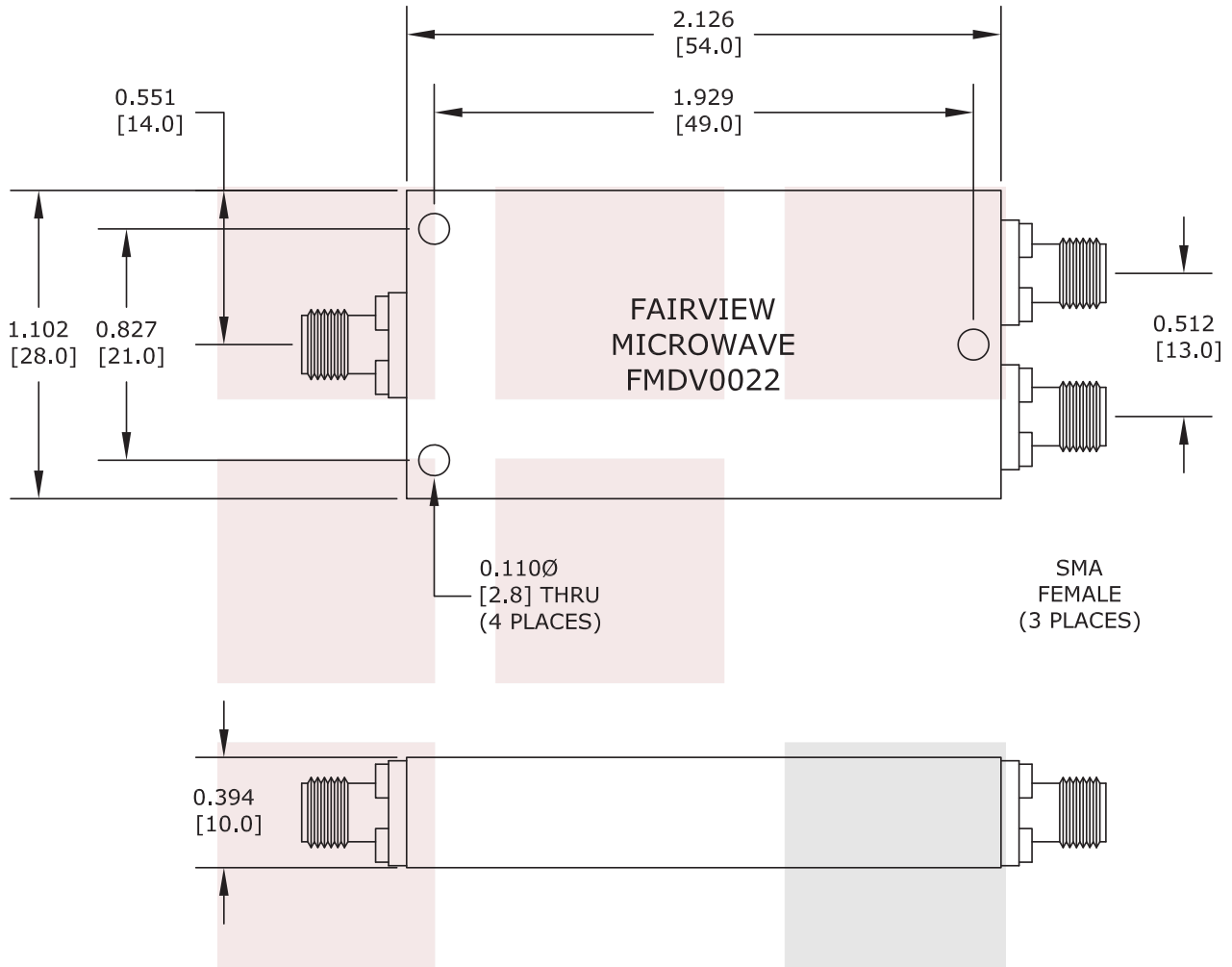
2 Way Power Divider SMA Connectors Wilkinson From 500 MHz to 2 GHz Rated at 30 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2 Way Power Divider SMA Connectors Wilkinson From 500 MHz to 2 GHz Rated at 30 Watts FMDV0022](#)

URL: <http://www.fairviewmicrowave.com/2-way-power-divider-sma-wilkinson-2-ghz-30-watts-fmdv0022-p.aspx>

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TITLE 2 Way Power Divider SMA Connectors Wilkinson From 500 MHz to 2 GHz Rated at 30 Watts		DWG NO FMDV0022		CAGE CODE 3FKR5	
CAD FILE	041415	SHEET	SCALE	N/A	SIZE A 2233