

8 Way Power Divider SMA Connectors Wilkinson From 800 MHz to 2.5 GHz Rated at 30 Watts

FMDV0021 is a passive 8 way RF Power Divider with 50 ohm SMA female connectors operating from 0.8 to 2.5 GHz, with a max input power of 30 watts. The FMDV0021 has less than 20 dB Isolation, 1.2 dB maximum Insertion loss and a Max VSWR of 1.4:1; along with a phase balance of ± 8 degrees and an amplitude balance of ± 0.5 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				8
Description	Min	Typ	Max	Units
Frequency Range	0.8		2.5	GHz
Impedance		50		Ohms
Input VSWR			1.4:1	
Input Return Loss		15		dB
Insertion Loss			1.2	dB
Isolation	20			dB
Amplitude Balance			0.5	dB
Phase Balance			5	Degrees
Input Power (CW)			30	Watts
Reverse Power (CW)			1	Watt

Mechanical Specifications

Size	
Length	5.906 in [150.01 mm]
Width	3.386 in [86 mm]
Height	0.55 in [13.97 mm]
Weight	0.871 lbs [395.08 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



Features:

- 0.8 to 2.5 GHz
- 30 Watts Max Power
- $\pm 8^{\circ}$ Phase Balance
- 20 dB min Isolation
- 8 way SMA 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

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Shock
 Vibration
 Altitude
 Temperature Cycle

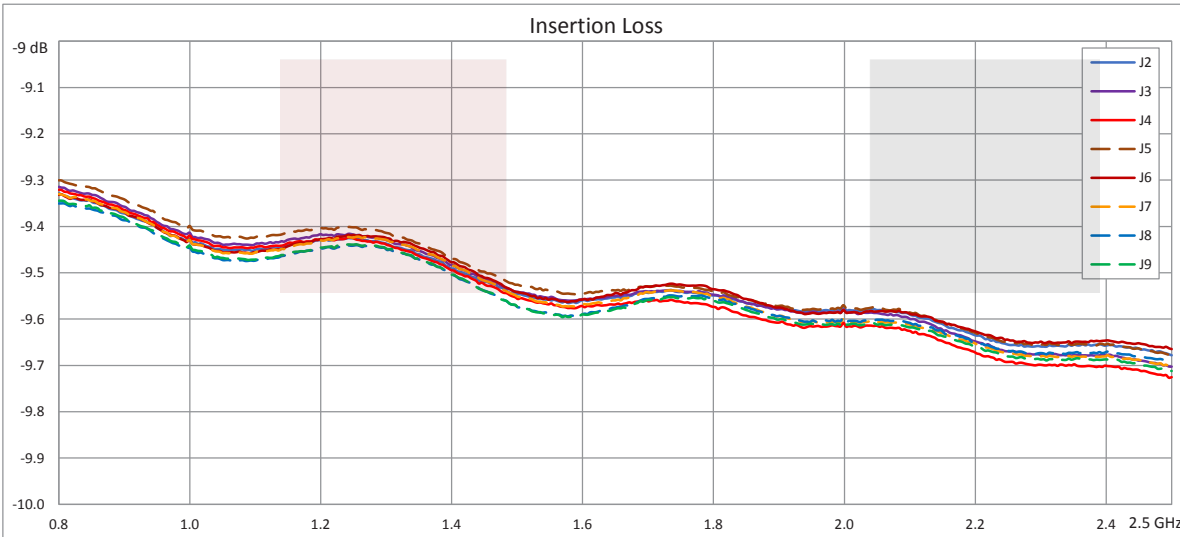
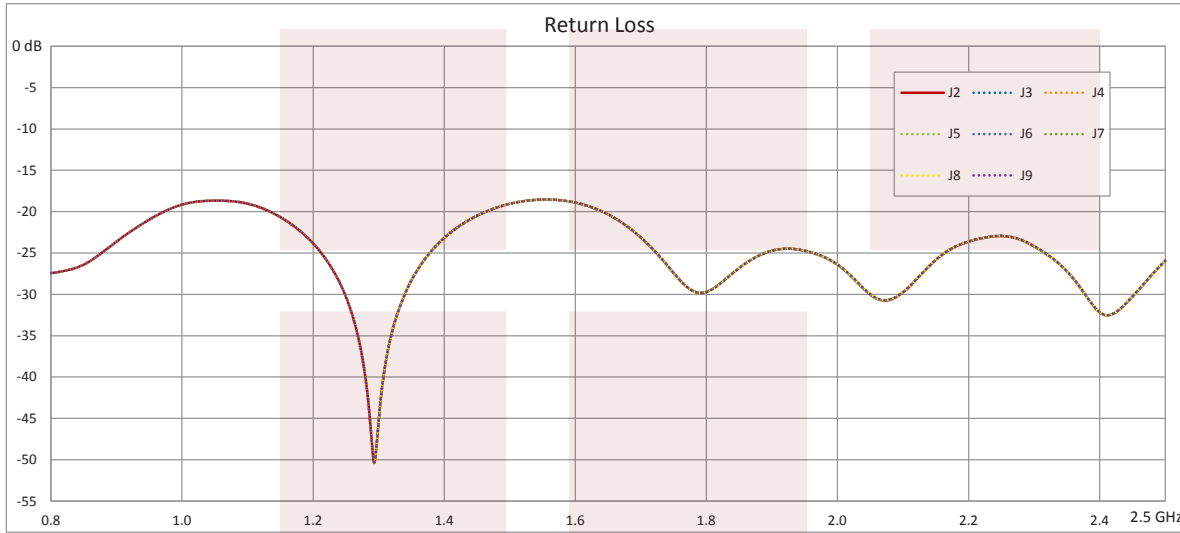
MIL-STD-202F, METHOD 213B COND. B
 MIL-STD-202F, METHOD 204D COND. B
 MIL-STD-202F, METHOD 105C COND. B
 MIL-STD-202F, METHOD 107D COND. A

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



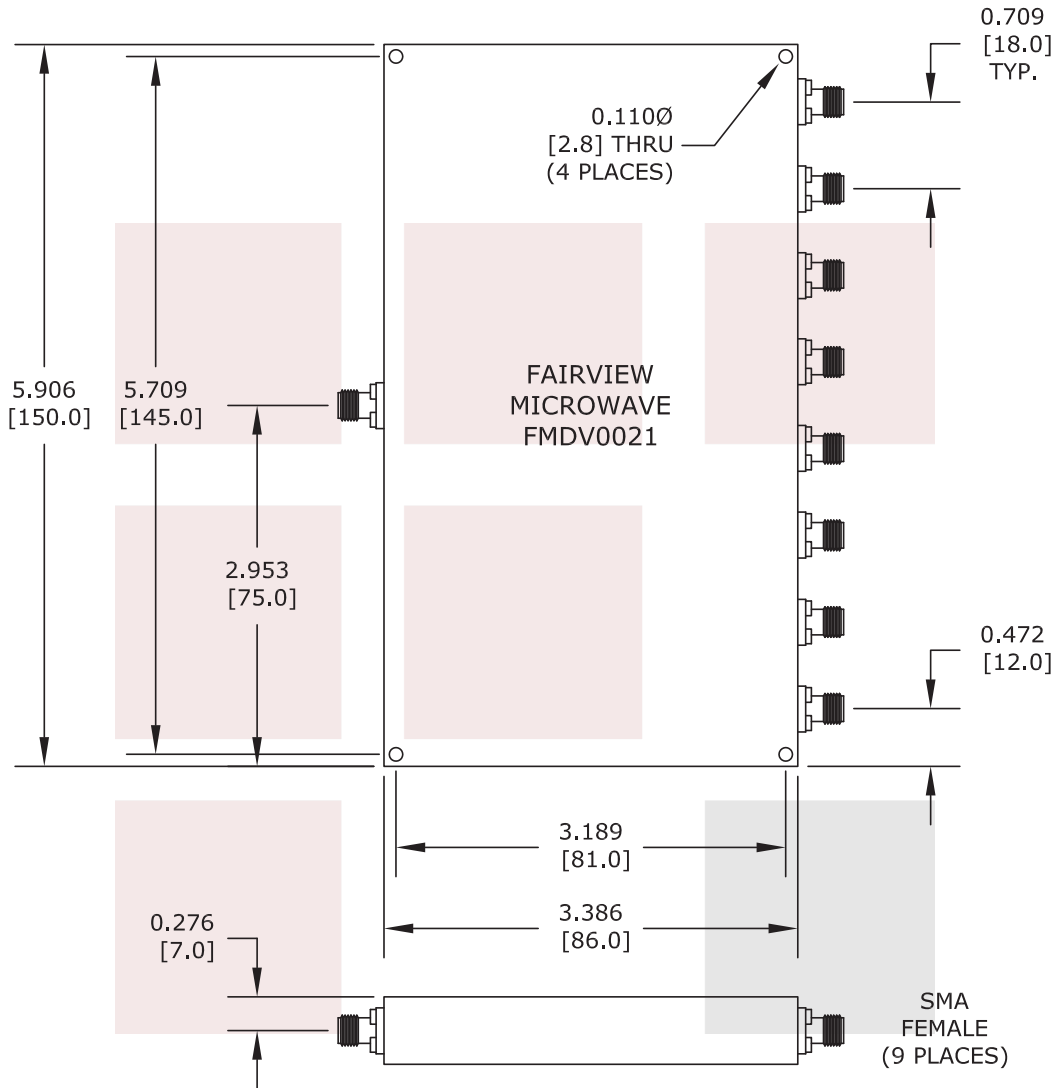
8 Way Power Divider SMA Connectors Wilkinson From 800 MHz to 2.5 GHz Rated at 30 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [8 Way Power Divider SMA Connectors Wilkinson From 800 MHz to 2.5 GHz Rated at 30 Watts FMDV0021](#)

URL: <https://www.fairviewmicrowave.com/8-way-power-divider-sma-wilkinson-2.5-ghz-30-watts-fmdv0021-p.aspx>

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NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

TITLE	DWG NO	CAGE CODE	
8 Way Power Divider SMA Connectors Wilkinson From 800 MHz to 2.5 GHz Rated at 30 Watts	FMDV0021	3FKR5	
CAD FILE	SHEET	SCALE	SIZE
041415		N/A	A
			2233