

## 4 way Power Divider N Connectors from 300 MHz to 500 MHz Rated at 50 Watts

Fairview Microwave carries a wide selection of power dividers to fit your needs. These components are essential in many systems, allowing the combination of multiple signals or splitting of a single signal into multiple signals with equal magnitude and phase. Fairview Microwave's resistive and Wilkinson power dividers come with excellent performance featuring minimal loss, high isolation and low VSWR. They are available in both narrow and broad bandwidths with a variety of connector types such as 2.92mm, BNC, N and SMA.

The FMDV1209 is a 4-way power divider that operates from 300 to 500 MHz and can handle up to 50 Watts (CW) with 0.8 dB max insertion loss and 20 dB min isolation. The package interface uses N female connectors.



### Electrical Specifications

Number of Output Ports			4	
Description	Min	Typ	Max	Units
Frequency Range	300		500	MHz
Impedance		50		Ohms
Input VSWR		1.25:1	1.35:1	
Output VSWR		1.2:1	1.25:1	
Insertion Loss		0.5	0.8	dB
Isolation	20	22		dB
Amplitude Balance		0.2	0.3	dB
Phase Balance		2	4	Degrees
Nominal Power Splitting		6		dB
Input Power (CW)			50	Watts
Reverse Power (CW)			5	Watts
Input Power (Peak)			500	Watts

### Mechanical Specifications

<b>Size</b>	
Length	4.524 in [114.91 mm]
Width	3.12 in [79.25 mm]
Height	0.78 in [19.81 mm]
Weight	2.75 lbs [1.25 kg]
Housing Material and Plating	Aluminum

### Configuration

Input Connector	N Female
Output Connectors	N Female

### Environmental Specifications

<b>Temperature</b>	
Operating Range	-40 to +85 deg C
Storage Range	-50 to +105 deg C

### Features:

- 4-Way Power Divider
- N Female Connectorized Design
- 300 to 500 MHz Frequency Range
- Max Power 50 Watts (CW)
- Insertion Loss < 0.8 dB
- Isolation > 20 dB

### Applications:

- Test and Measurement
- Military Communications
- Commercial Communications
- Wireless Communications
- SATCOM

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Humidity  
Shock  
Vibration  
Altitude

100% RH at 35°C, 95%RH at 40°C  
20G for 11msec half sine wave, 3 axis both directions  
25g RMS (15 degrees 2KHz) endurance, 1 hour per axis  
30,000 ft.

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

**Plotted and Other Data**

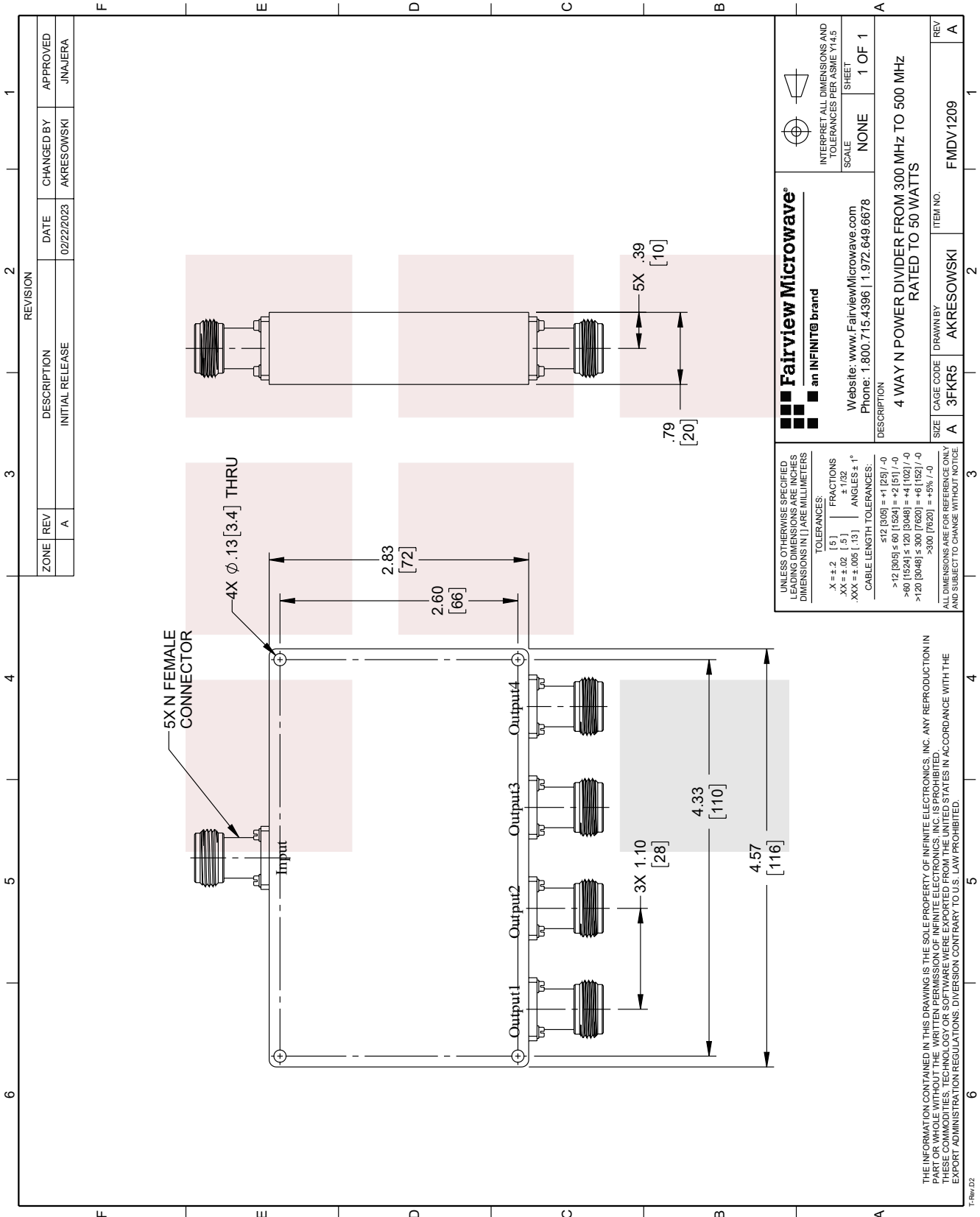
Notes:

4 way Power Divider N Connectors from 300 MHz to 500 MHz 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [4 way Power Divider N Connectors from 300 MHz to 500 MHz Rated at 50 Watts FMDV1209](#)

URL: <https://www.fairviewmicrowave.com/4-way-power-divider-500-khz-fmdv1209-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.



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION	INITIAL RELEASE	
	A			JNAJERA

**Fairview Microwave<sup>®</sup>**  
an INFINIT<sup>®</sup> brand

Website: [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com)  
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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5  
SCALE NONE  
SHEET 1 OF 1

DESCRIPTION  
**4 WAY N POWER DIVIDER FROM 300 MHz TO 500 MHz  
RATED TO 50 WATTS**

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS  
DIMENSIONS IN PARENS ARE IN INCHES

TOLERANCES:  
 .X = ±.2 [5] FRACTIONS  
 .XX = ±.02 [.5] ±.152  
 .XXX = ±.006 [.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:  
 ≤12 [305] = ±1 [25] / -0  
 >12 [305] ≤ 60 [1524] = +2 [51] / -0  
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0  
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	AKRESOWSKI	FMDV1209	A