

2 way Power Divider SMA Connectors from 220 MHz to 450 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 FMDV1203 is a 2-way power divider that operates from 220 to 450 MHz and can handle up to 50 Watts (CW) with 0.3 dB max insertion loss and 20 dB min isolation. The package interface uses SMA female connectors.

Electrical Specifications

Number of Output Ports				2
Description	Min	Typ	Max	Units
Frequency Range	220		450	MHz
Impedance				50 Ohms
Input VSWR				1.25:1
Output VSWR				1.15:1
Insertion Loss				0.2
Isolation	20	22	0.3	dB
Amplitude Balance				0.1
Phase Balance				1
Nominal Power Splitting				3
Input Power (CW)				50 Watts
Reverse Power (CW)				5 Watts
Input Power (Peak)				500 Watts

Mechanical Specifications

Size	
Length	2.34 in [59.44 mm]
Width	3.51 in [89.15 mm]
Height	0.39 in [9.91 mm]
Weight	0.6 lbs [272.16 g]
Housing Material and Plating	Aluminum
Configuration	
Input Connector	SMA Female
Output Connectors	SMA Female

Environmental Specifications

Temperature	
Operating Range	-40 to +85 deg C
Storage Range	-50 to +105 deg C
Humidity	100% RH at 35°C, 95%RH at 40°C



Features:

- 2-Way Power Divider
- SMA Female Connectorized Design
- 220 to 450 MHz Frequency Range
- Max Power 50 Watts (CW)
- Insertion Loss < 0.3 dB
- Isolation > 20 dB

Applications:

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

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Shock
Vibration
Altitude

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

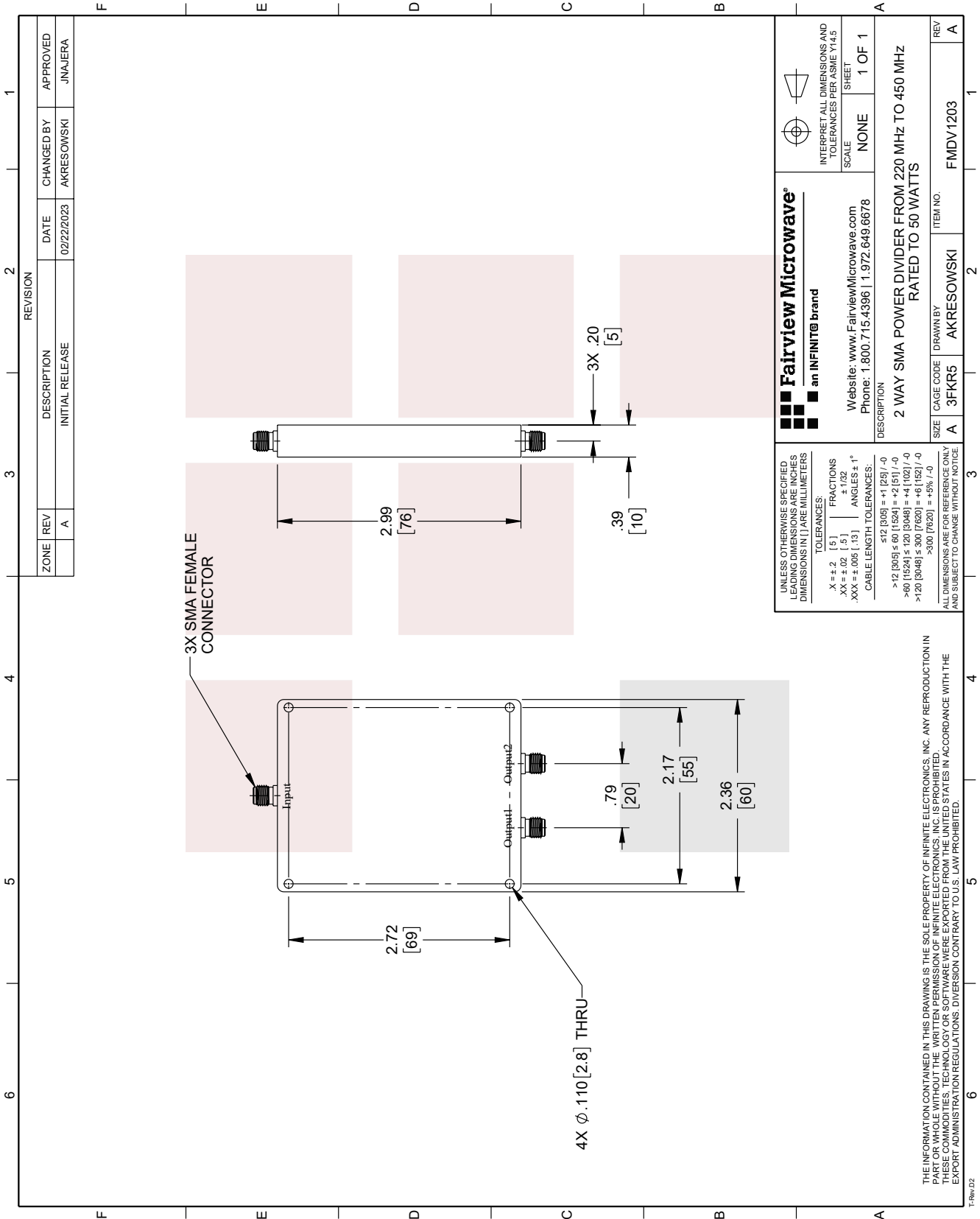
Notes:

2 way Power Divider SMA Connectors from 220 MHz to 450 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: [2 way Power Divider SMA Connectors from 220 MHz to 450 MHz Rated at 50 Watts FMDV1203](#)

URL: <https://www.fairviewmicrowave.com/2-way-power-divider-450-mhz-fmdv1203-p.aspx>

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

FAIRVIEW MICROWAVE		DESCRIPTION	
Website: www.FairviewMicrowave.com	Phone: 1.800.715.4396 1.972.649.6678	2 WAY SMA POWER DIVIDER FROM 220 MHz TO 450 MHz RATED TO 50 WATTS	

UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN [] ARE MILLIMETERS	FAIRVIEW MICROWAVE	an INFINIT [®] brand	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
X = ±.2 [5] FRACTIONS ±.132	Website: www.FairviewMicrowave.com	an INFINIT [®] brand	SCALE NONE
.XX = ±.02 [.5] ANGLES ± 1°	Phone: 1.800.715.4396 1.972.649.6678		SHEET 1 OF 1
.XXX = ±.006 [.13]			
CABLE LENGTH TOLERANCES:			
>12 [305] ≤ 60 [1524] = ±1 [25] / -0			
>60 [1524] ≤ 120 [3048] = ±4 [102] / -0			
>120 [3048] ≤ 300 [7620] = ±6 [152] / -0			
>300 [7620] = ±5% / -0			

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	AKRESOWSKI	FMDV1203	A

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