

2 Way Power Splitter 1.0 mm Connectors From DC to 110 GHz Rated at 0.2 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, SMA and 1.0 mm (W1). The FMDV2108 is a 2-way resistive power splitter that operates from DC to 110 GHz and can handle up to 0.2 Watt (CW) with 9.5 dB max insertion loss. The package interface uses 1.0 mm (W1) female connectors for the output and a 1.0 mm (W1) male connector for the input.

Electrical Specifications

Design	Resistive			
Number of Output Ports	2			
Description	Min	Typ	Max	Units
Frequency Range	DC		110	GHz
Impedance		50		Ohms
Input VSWR			2.1:1	
Insertion Loss			9.5	dB
Input Power (CW)			0.2	Watts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Freq. Range	DC-20	20-50	50-67	67-105	105-110	GHz
In VSWR, Max	1.2:1	1.4:1	1.4:1	1.9:1	2.1:1	
IL, Max	7	7.5	8.25	9	9.5	dB
Output Match, Min	18	14	14	8	6	dB
Amp Balance, Max	0.4	0.4	0.4	1	1	dB

Electrical Specification Notes:
Insertion loss max 9.5 dB, Includes Power Dividing Loss.

Mechanical Specifications

Size	
Length	0.441 in [11.2 mm]
Width	0.441 in [11.2 mm]
Height	0.441 in [11.2 mm]
Weight	0.05 lbs [22.68 g]

Configuration

Input Connector	1.0mm Male
Output Connectors	1.0mm Female



Features:

- 2-Way Power Splitter
- DC to 110 GHz Frequency Range
- 1.0 mm (W1) Connectorized Design
- Max Power 0.2 Watt (CW)
- Insertion Loss < 9.5 dB
- Typical VSWR of 1.6:1

Applications:

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

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Environmental Specifications

Temperature

Operating Range
Storage Range

+0 to +70 deg C
-55 to +125 deg C

Humidity
Shock

95% at 40 °C, 96 hours, Test 103B, Condition B
100 G peak sawtooth, method 213, Condition B

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

Plotted and Other Data

Notes:

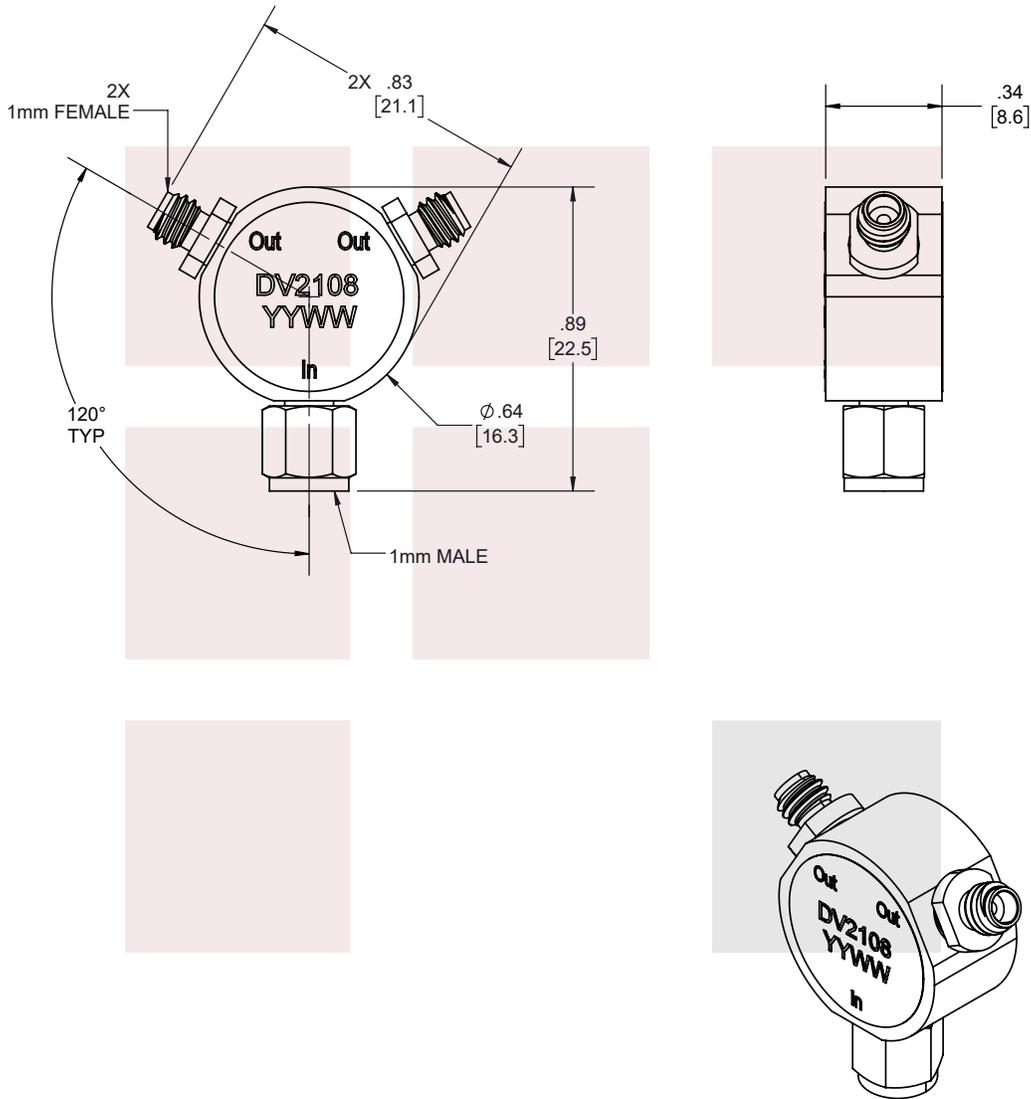
2 Way Power Splitter 1.0 mm Connectors From DC to 110 GHz Rated at 0.2 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2 Way Power Divider 1.0mm Interface from DC to 110 GHz Rated at 0.2 Watts FMDV2108](#)

URL: <https://www.fairviewmicrowave.com/0-way-power-divider-1.0mm-110-ghz-fmdv2108-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	8/1/2022	S. PONG



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TITLE
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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS ± 1/32
.XX = ±.02 [.51]
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FMDV2108	REV A
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