

2 Way Power Divider 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 FMDV2107 is a 2-way resistive power divider that operates from DC to 110 GHz and can handle up to 0.2 Watt (CW) with 9 dB max insertion loss. The package interface uses 1.0 mm (W1) female connectors.

Electrical Specifications

Design				Resistive
Number of Output Ports				2
Description	Min	Typ	Max	Units
Frequency Range	DC		110	GHz
Impedance		50		Ohms
Input VSWR			1.9:1	
Insertion Loss			9	dB
Phase Balance		10	20	Degrees
Input Power (CW)			0.2	Watts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Freq. Range	DC-20	20-50	50-67	67-0.09	0.09-110	GHz
In VSWR, Max	1.4:1	1.4:1	1.6:1	1.9:1	1.9:1	
IL, Max	7	7.5	8.25	9	9	dB
Amp Balance, Max 0.6		0.75	0.75	1.25	1.75	dB

Electrical Specification Notes:
Insertion loss max 9 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 Female
Output Connectors	1.0mm Female

Environmental Specifications

Temperature	
Operating Range	+0 to +70 deg C



Features:

- 2-Way Power Divider
- DC to 110 GHz Frequency Range
- 1.0 mm (W1) Connectorized Design
- Max Power 0.2 Watt (CW)
- Insertion Loss < 9 dB
- Typical VSWR of 1.6:1

Applications:

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

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Storage Range	-55 to +125 deg C
Humidity	95% at 40 °C, 96 hours, Test 103B, Condition B
Shock	100 G peak sawtooth, method 213, Condition B

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

Plotted and Other Data

Notes:

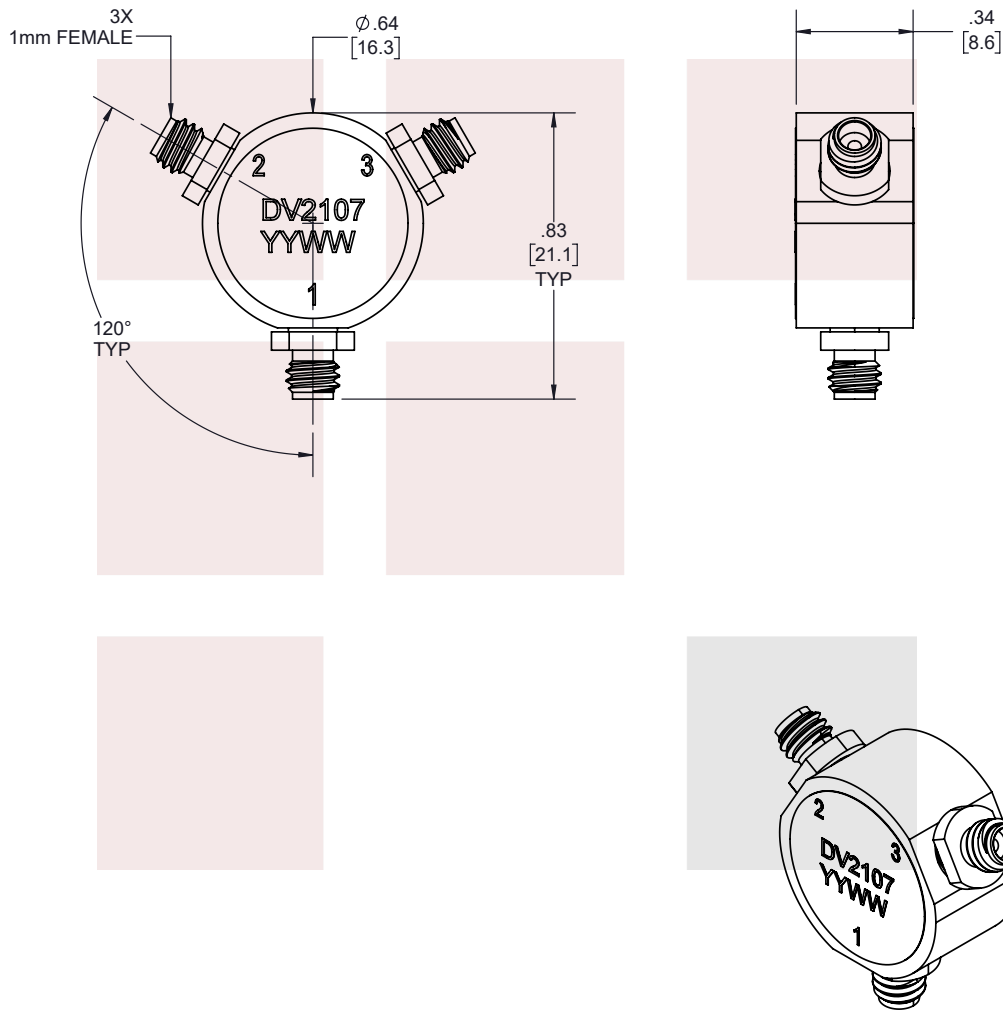
2 Way Power Divider 1.0 mm Connectors From DC to 110 GHz Rated at 0.2 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

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 FMDV2107](#)

URL: <https://www.fairviewmicrowave.com/0-way-power-divider-1.0mm-110-ghz-fmdv2107-p.aspx>

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



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TITLE
2 Way Power Divider 1.0 mm Connectors From DC to 110 GHz Rated at 0.2 Watts

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

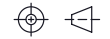
TOLERANCES:

.X = ±.2 [5.08] FRACTIONS ± 1/32
.XX = ±.02 [.51] ± 1/32
.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. FMDV2107	REV A
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