

## 4 Way Power Divider 2.4mm Connectors From 25 GHz to 50 GHz Rated at 20 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, 2.4mm, 1.85mm BNC, N and SMA.

The FMDV1148 is a 4-way power divider that operates from 25 to 50 GHz and can handle up to 20 Watts (CW) with 2 dB max insertion loss and 15 dB min isolation. The package interface uses 2.4mm female connectors.



### Electrical Specifications

Number of Output Ports		4		
Description	Min	Typ	Max	Units
Frequency Range	25		50	GHz
Impedance		50		Ohms
Input VSWR		1.6:1	1.8:1	
Output VSWR		1.4:1	1.6:1	
Insertion Loss		1.3	2	dB
Isolation	15	16		dB
Amplitude Balance		0.3	0.4	dB
Phase Balance		5	10	Degrees
Nominal Power Splitting		6		dB
Input Power (CW)			20	Watts
Reverse Power (CW)			0.5	Watts
Input Power (Peak) 10% Duty Cycle 1us Pulse Width			200	Watts

### Features:

- 4-Way Power Divider
- 2.4mm Female Connectorized Design
- 25 to 50 GHz Frequency Range
- Max Power 20 Watts (CW)
- Insertion Loss < 2 dB
- Isolation > 15 dB

### Applications:

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

### Mechanical Specifications

Size	
Length	2.03 in [51.56 mm]
Width	0.94 in [23.88 mm]
Height	0.39 in [9.91 mm]
Weight	0.113 lbs [51.26 g]
Housing Material and Plating	Aluminum
Configuration	
Package Type	Connectorized
Input Connector	2.4mm Female
Output Connectors	2.4mm Female

### Environmental Specifications

Temperature	
Operating Range	-40 to +85 deg C
Storage Range	-50 to +105 deg C

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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  
25gRMS (15 degrees 2KHz) endurance, 1 hour per axis  
30,000 ft. (Epoxy Sealed Controlled environment)

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

**Plotted and Other Data**

Notes:

4 Way Power Divider 2.4mm Connectors From 25 GHz to 50 GHz Rated at 20 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 2.4mm Connectors From 25 GHz to 50 GHz Rated at 20 Watts FMDV1148](#)

URL: <https://www.fairviewmicrowave.com/4-way-power-divider-2.4mm-50-ghz-fmdv1148-p.aspx>

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