

8 Way Power Divider SMA Connectors From 0.5 GHz to 6 GHz Rated at 30 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 FMDV1180 is a 8-way power divider that operates from 0.5 to 6 GHz and can handle up to 30 Watts (CW) with 3.5 dB max insertion loss and 18 dB min isolation. The package interface uses SMA female connectors.

Electrical Specifications

| Number of Output Ports | | | 8 | |
|-------------------------|-----|-------|-------|---------|
| Description | Min | Typ | Max | Units |
| Frequency Range | 0.5 | | 6 | GHz |
| Impedance | | 50 | | Ohms |
| Input VSWR | | 1.4:1 | 1.6:1 | |
| Output VSWR | | 1.3:1 | 1.4:1 | |
| Insertion Loss | | 2 | 3.5 | dB |
| Isolation | 18 | 23 | | dB |
| Amplitude Balance | | 0.2 | 0.5 | dB |
| Phase Balance | | 5 | 7 | Degrees |
| Nominal Power Splitting | | 9 | | dB |
| Input Power (CW) | | | 30 | Watts |
| Reverse Power (CW) | | | 2 | Watts |
| Input Power (Peak) | | | 300 | Watts |

Mechanical Specifications

| | |
|------------------------------|----------------------|
| Size | |
| Length | 4.13 in [104.9 mm] |
| Width | 3.47 in [88.14 mm] |
| Height | 0.39 in [9.91 mm] |
| Weight | 0.469 lbs [212.73 g] |
| Housing Material and Plating | Aluminum |
| Configuration | |
| Package Type | Connectorized |
| 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 |



Features:

- 8-Way Power Divider
- SMA Female Connectorized Design
- 0.5 to 6 GHz Frequency Range
- Max Power 30 Watts (CW)
- Insertion Loss < 3.5 dB
- Isolation > 18 dB

Applications:

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

Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

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:

8 Way Power Divider SMA Connectors From 0.5 GHz to 6 GHz Rated at 30 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: [8 Way Power Divider SMA Connectors From 0.5 GHz to 6 GHz Rated at 30 Watts FMDV1180](#)

URL: <https://www.fairviewmicrowave.com/8-way-power-divider-sma-6-ghz-fmdv1180-p.aspx>

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