

## 2 Way Power Divider SMA Interface from 6 GHz to 18 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, BNC, N and SMA.

The FMDV2105 is a 2-way high power Wilkinson power divider that operates from 6 to 18 GHz and can handle up to 30 Watts (CW) with 0.6 dB max insertion loss and 18 dB min isolation. The package interface uses SMA female connectors and is REACH and RoHS compliant.

### Electrical Specifications

Design Standard  
Number of Output Ports 2

| Description        | Min | Typ   | Max   | Units   |
|--------------------|-----|-------|-------|---------|
| Frequency Range    | 6   |       | 18    | GHz     |
| Impedance          |     | 50    |       | Ohms    |
| Input VSWR         |     | 1.3:1 | 1.5:1 |         |
| Output VSWR        |     | 1.3:1 | 1.4:1 |         |
| Insertion Loss     |     | 0.4   | 0.6   | dB      |
| Isolation          | 18  | 19    |       | dB      |
| Amplitude Balance  |     | 0.15  | 0.3   | dB      |
| Phase Balance      |     | 3     | 5     | Degrees |
| Input Power (CW)   |     |       | 30    | Watts   |
| Reverse Power (CW) |     |       | 1     | Watt    |
| Input Power (Peak) |     |       | 300   | Watts   |

### Mechanical Specifications

Size  
Length 1.18 in [29.97 mm]  
Width 0.95 in [24.13 mm]  
Height 0.39 in [9.91 mm]  
Weight 0.05 lbs [22.68 g]  
Finish Gray  
Housing Material and Plating Aluminum

### Configuration

Input Connector SMA Female

### Environmental Specifications

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



### Features:

- 2-Way Power Divider
- High Power Wilkinson Design
- 6 to 18 GHz Frequency Range
- Max Power 30 Watts (CW)
- Insertion Loss < 0.6 dB
- Isolation > 18 dB

### Applications:

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

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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  
30,000ft. Epoxy Sealed, 60,000ft. 1psi min Hermetically Sealed

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

## Plotted and Other Data

Notes:

2 Way Power Divider SMA Interface from 6 GHz to 18 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: [2 Way Power Divider SMA Interface from 6 GHz to 18 GHz Rated at 30 Watts FMDV2105](#)

URL: <https://www.fairviewmicrowave.com/2-way-power-divider-n-18-ghz-fmdv2105-p.aspx>

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