FMDV0024 is a passive 4 way RF Power Divider with 50 ohm SMA female connectors operating from 0.5 to 2 GHz, with a max input power of 30 watts. The FMDV0024 has less than 20 dB Isolation, 1 dB maximum Insertion loss and a Max VSWR of 1.3:1; along with a phase balance of ±3 degrees and an amplitude balance of ±0.3 dB. The RF Divider operates in a temperature range from -55°C to 85°C and meets Military standards for Humidity, Shock, Vibration, Altitude, and Temperature. Power dividers have many applications and so perform many valuable functions within the RF/Microwave world. Examples are antenna beam forming, taps for cable distributed systems combining feeds to and from antennae.

### Electrical Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>0.5</td>
<td>2</td>
<td>2</td>
<td>GHz</td>
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<tr>
<td>Impedance</td>
<td>50</td>
<td></td>
<td>50</td>
<td>Ohms</td>
</tr>
<tr>
<td>Input VSWR</td>
<td></td>
<td>1.3:1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output VSWR</td>
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<td>1.2:1</td>
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<tr>
<td>Input Return Loss</td>
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<td></td>
<td></td>
<td>dB</td>
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<tr>
<td>Output Return Loss</td>
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<td></td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Insertion Loss</td>
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<tr>
<td>Isolation</td>
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<td></td>
<td>dB</td>
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<tr>
<td>Amplitude Balance</td>
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<td></td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Phase Balance</td>
<td>±3</td>
<td></td>
<td></td>
<td>Degrees</td>
</tr>
<tr>
<td>Input Power (CW)</td>
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<td></td>
<td></td>
<td>Watts</td>
</tr>
<tr>
<td>Reverse Power (CW)</td>
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<td></td>
<td></td>
<td>Watts</td>
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</tbody>
</table>

### Mechanical Specifications

<table>
<thead>
<tr>
<th>Size</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>3 in [76.2 mm]</td>
</tr>
<tr>
<td>Width</td>
<td>2.21 in [56.13 mm]</td>
</tr>
<tr>
<td>Height</td>
<td>0.39 in [9.91 mm]</td>
</tr>
<tr>
<td>Weight</td>
<td>0.2 lbs [90.72 g]</td>
</tr>
</tbody>
</table>

### Configuration

- **Input Connector**: SMA Female
- **Output Connectors**: SMA Female

### Environmental Specifications

#### Temperature

- **Operating Range**: -55 to +85 deg C
- **Storage Range**: -55 to +100 deg C

- **Humidity**: MIL-STD-202F, METHOD 103B, COND. B

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**Features:**

- 0.5 to 2 GHz
- 30 Watts Max Power
- ±4° Phase Balance
- 20 dB min Isolation
- 4 way SMA divider

**Applications:**

- Communications Systems
- CDMA, GSM, LTE
- Amplifier Systems
- Amplifier Power Dividing
- Aviation/Aerospace
- Defense Applications

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**Compliance Certifications** (visit www.FairviewMicrowave.com for current document)
RoHS Compliant  Yes
REACH Compliant  12/17/2015

**Plotted and Other Data**

Notes:

**Typical Performance Data**

- **Return Loss**
- **Insertion Loss**

![Graphs showing Return Loss and Insertion Loss](image-url)
4 Way Power Divider SMA Connectors Wilkinson From 500 MHz to 2 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 Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 4 Way Power Divider SMA Connectors Wilkinson From 500 MHz to 2 GHz Rated at 30 Watts FMDV0024


The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.
4 Way Power Divider SMA Connectors Wilkinson From 500 MHz to 2 GHz Rated at 30 Watts