



4 Way Power Divider SMA Interface from 4 GHz to 8 GHz Rated at 30 Watts

FMDV1047 is a passive 4 way RF Power Divider with 50 ohm SMA female connectors operating from 4 to 8 GHz, with a max input power of 30 watts. The FMDV1047 has less than 22 dB Isolation, 0. dB Maximum Insertion loss and a Max VSWR of 1.25:1; 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 -45°C to 85°C and is rated for Humidity, Shock, Vibration, and Altitude. 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.

Design Number of Output Ports Wilkinson

| Description | Min | Тур | Max | Units |
|--------------------|-----|--------|--------|---------|
| Frequency Range | 4 | | 8 | GHz |
| Impedance | | 50 | | Ohms |
| Input VSWR | | 1.25:1 | 1.3:1 | |
| Output VSWR | | 1.2:1 | 1.25:1 | |
| Insertion Loss | | 0.6 | 0.8 | dB |
| Isolation | 20 | 22 | | dB |
| Amplitude Balance | | ±0.2 | ±0.3 | dB |
| Phase Balance | | ±2 | ±3 | Degrees |
| Input Power (CW) | | | 30 | Watts |
| Reverse Power (CW) | | | 2 | Watts |
| Input Power (Peak) | | | 300 | Watts |

Mechanical Specifications

Size

Length 1.69 in [42.93 mm]
Width 0.39 in [9.91 mm]
Height 2.21 in [56.13 mm]
Weight 0.135 lbs [61.23 g]
Finish Gray

Configuration

Package Type Connectorized Input Connector SMA Female Output Connectors SMA Female

Environmental Specifications Temperature

Housing Material and Plating

Operating Range Storage Range -45 to +85 deg C -55 to +125 deg C

Aluminum



Features:

- Ultra Wide Band Operation
- · 30 watt CW Rating
- 4 to 8 GHz
- SMA Female Connector
- Meets Standards for Humidity, Shock, Vibration, Altitude

Applications:

- Communications Systems
- · Amplifier Systems
- Amplifier Power Dividing
- Aerospace/Aviation
- Defense Applications

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fay: (972) 649-6689

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





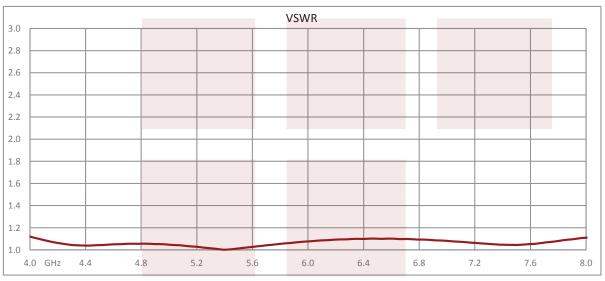
Humidity Shock Vibration Altitude 100% RH at 35°C, 95% RH at 40°C 20G for 11msec half sine wave, 3 axis both directions 25g RMS (15 degrees 2KHz) endurance, 1 hour per axis 30,000 ft. (Epoxy Sealed Controlled environment)

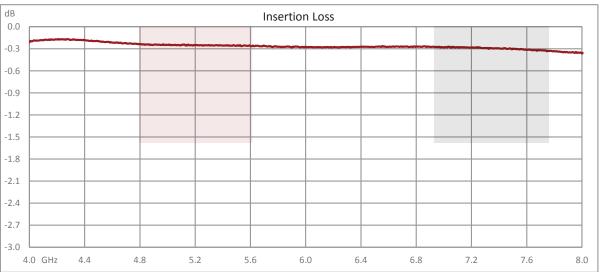
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

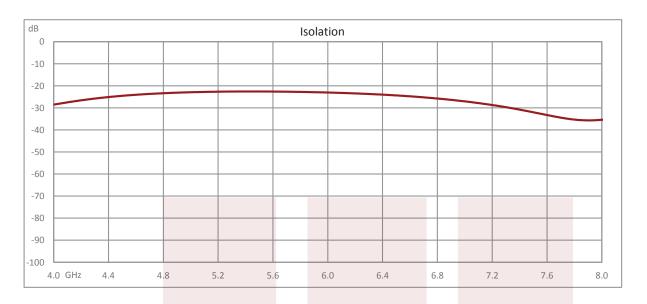
Typical Performance Data











4 Way Power Divider SMA Interface from 4 GHz to 8 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: 4 Way Power Divider SMA Interface from 4 GHz to 8 GHz Rated at 30 Watts FMDV1047

URL: https://www.fairviewmicrowave.com/4-way-power-divider-sma-8-ghz-fmdv1047-p.aspx

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