

## 4 Way Power Divider SMA Interface from 6 GHz to 18 GHz Rated at 30 Watts

## FAIRVIEW MICROWAVE FMDV1048 Output1 Output2 Output3 Output4

#### **FMDV1048**

#### **Features**

- · Ultra Wide Band Operation
- · 30 watt CW Rating
- 6 to 18 GHz

#### **Applications**

- · Communications Systems
- Amplifier Systems
- · Amplifier Power Dividing

- · SMA Female Connector
- · Meets Standards for Humidity, Shock, Vibration, Altitude
- Aerospace/Aviation
- · Defense Applications

#### **Description**

FMDV1048 is a passive 4 way RF Power Divider with 50 ohm SMA female connectors operating from 6 to 18 GHz, with a max input power of 30 watts. The FMDV1048 has less than 19 dB Isolation, 1 dB Maximum Insertion loss and a Max VSWR of 1.55:1; along with a phase balance of ±6 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.

#### **Electrical Specifications**

Number of Output Ports

4

Description	Min	Тур	Max	Units
Frequency Range	6		18	GHz
Impedance		50		Ohms
Input VSWR		1.35:1	1.55:1	
Insertion Loss		0.7	1	dB
Isolation	16	19		dB
Amplitude Balance		±0.4	±0.5	dB
Phase Balance		±3	±6	Degrees
Nominal Power Splitting		6		dB
Input Power (CW)			30	Watts
Reverse Power (CW)			1	Watt
Input Power (Peak)			300	Watts

#### **Mechanical Specifications**

Size

Length Width Height Weight Finish

Housing Material and Plating

2 in [50.8 mm] 0.38 in [9.65 mm] 2 in [50.8 mm] 0.1655 lbs [75.07 g]

Gray Aluminum



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#### **FMDV1048**

Configuration

Package TypeConnectorizedInput ConnectorSMA FemaleOutput ConnectorsSMA Female

#### **Environmental Specifications**

Temperature

Operating Range -45 to 85 deg C
Storage Range -55 to 125 deg C
Humidity 100% RH at 35°C, 95% RH at 40°C
Shock 20G for 11msec half sine wave, 3 axis both directions
Vibration 25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Altitude 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 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: 4 Way Power Divider SMA Interface from 6 GHz to 18 GHz Rated at 30 Watts FMDV1048

URL: https://www.fairviewmicrowave.com/4-way-power-divider-sma-18-ghz-fmdv1048-p.aspx

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