

## WR-10 2 Way Waveguide Power Divider From 87 GHz to 93 GHz UG-187/U-M Flange, Copper



### FMW10DV001

#### Features

- 2-Way Waveguide Power Divider
- WR-10 Waveguide Interface
- 87 to 93 GHz Frequency Range
- Max Power 1 Watt (CW)
- Insertion Loss 0.8 dB max
- Isolation 15 dB min

#### Applications

- Test Benches
- Radar
- Satellite
- Microwave Radio
- Attenuation Measurements
- Power Measurements

#### Description

Fairview Microwave carries a wide selection of waveguide 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. The FMW10DV001 is a 2-way waveguide power divider that operates from 87 to 93 GHz and can handle up to 1 Watt (CW) with 0.8 dB max insertion loss and 15 dB min isolation. The package uses WR-10 waveguide interface.

#### Electrical Specifications

Number of Output Ports 2

Description	Min	Typ	Max	Units
Frequency Range	87		93	GHz
Input VSWR			1.4:1	
Output VSWR			1.6:1	
Insertion Loss			0.8	dB
Isolation	15			dB
Amplitude Balance			± 0.5	dB
Phase Balance			± 6	Degrees
Input Power (CW)			1	Watts
Input Power (Peak)			200	Watts

#### Mechanical Specifications

##### Size

Length	0.98 in [24.89 mm]
Width	0.79 in [20.07 mm]
Height	0.75 in [19.05 mm]
Weight	0.14 lbs [63.5 g]
Finish	Gold
Housing Material and Plating	Copper, Gold

##### Configuration

Input Waveguide Size	WR-10
Input Flange Designation	UG-187/U-M
Input Body Material	Copper, Gold

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Output Waveguide Size	WR-10
Output Flange Designation	UG-187/U-M
Output Body Material	Copper, Gold

### Environmental Specifications

<b>Temperature</b>	
Operating Range	-40 to +70 deg C
Storage Range	-55 to +85 deg C

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

### Plotted and Other Data

Notes:

### Typical Performance Data

WR-10 2 Way Waveguide Power Divider From 87 GHz to 93 GHz UG-187/U-M Flange, Copper 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: [WR-10 2 Way Waveguide Power Divider From 87 GHz to 93 GHz UG-187/U-M Flange, Copper FMW10DV001](#)

URL: <https://www.fairviewmicrowave.com/wr-10-2-way-waveguide-power-divider-from-87-ghz-to-93-ghz-ug187-u-m-flange-copper-fmw10dv001-p.aspx>

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# FMW10DV001 CAD Drawing

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