

## 10 dB WR-62 Waveguide Broadwall Coupler with UG Cover Flange and N-Type Female Coupled Port from 11.9 GHz to 18 GHz in Copper

The FMW62CP001-10 is a WR-62 Directional Broadwall waveguide coupler with N female coupled port that operates in the frequency range of 11.9 to 18 GHz. This Waveguide component has a maximum VSWR of 1.25:1. These designs are made of painted copper alloy and incorporate a broad wall configuration that result in a mid-band nominal coupling value of 10, 20, 30, 40 or 50 dB. Common applications for this component would be where power measurements are required within a system for measuring/sampling power or frequency monitoring with minimal signal loss to the main transmission line. Fairview Microwave offers a complete family of waveguide Crossguide and Broadwall couplers that are in-stock and ship same day.

### Electrical Specifications

| Description            | Min  | Typ | Max    | Units  |
|------------------------|------|-----|--------|--------|
| Frequency Range        | 11.9 |     | 18     | GHz    |
| <b>Coupler</b>         |      |     |        |        |
| Nominal Coupling Level |      | 10  |        | dB     |
| Directivity            | 38   |     |        | dB     |
| Insertion Loss         |      |     | 0.6    | dB     |
| Main Line VSWR         |      |     | 1.1:1  |        |
| Secondary Line VSWR    |      |     | 1.25:1 |        |
| Coupling Flatness      |      |     | ±0.7   | dB     |
| Input Power (CW)       |      |     | 100    | Watts  |
| Input Power Peak       |      |     | 2      | kWatts |

### Mechanical Specifications

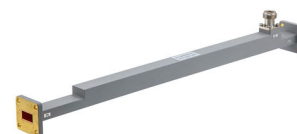
|                                   |                      |
|-----------------------------------|----------------------|
| <b>Size</b>                       |                      |
| Length                            | 14.96 in [379.98 mm] |
| Width                             | 1.31 in [33.27 mm]   |
| Height                            | 1.31 in [33.27 mm]   |
| Weight                            | 0.85 lbs [385.55 g]  |
| Flange Type                       | UG Cover             |
| Flange Material and Plating       | Copper, Passivated   |
| RF Connector Type                 | N Female             |
| Coupler Body Material and Plating | Copper, Passivated   |

### Environmental Specifications

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

### Plotted and Other Data

Notes:



### Features:

- Three Port Broadwall Waveguide Coupler
- 10±0.7 dB Nominal Coupling Level
- Integrated N Female Connector coupled port
- 11.9 GHz to 18 GHz Frequency Range
- Main Line VSWR < 1.1:1
- Max Power 100W (CW)

### Applications:

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

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10 dB WR-62 Waveguide Broadwall Coupler with UG Cover Flange and N-Type Female Coupled Port from 11.9 GHz to 18 GHz in 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: [10 dB WR-62 Waveguide Broadwall Coupler with UG Cover Flange and N-Type Female Coupled Port from 11.9 GHz to 18 GHz in Copper FMW62CP001-10](https://www.fairviewmicrowave.com/10db-wr62-waveguide-broadwall-coupler-ug-18mhz-fmw62cp001-10-p.aspx)

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