

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

The FMW62CP002-40 is a WR-62 Directional Broadwall waveguide coupler with SMA 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		40		dB
Directivity	25			dB
Insertion Loss			0.15	dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.25:1	
Coupling Flatness			±0.7	dB
Input Power (CW)			200	Watts
Input Power Peak			120	kWatts

### Mechanical Specifications

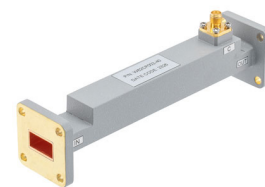
<b>Size</b>	
Length	5.51 in [139.95 mm]
Width	1.31 in [33.27 mm]
Height	1.31 in [33.27 mm]
Weight	0.42 lbs [190.51 g]
Flange Type	UG Cover
Flange Material and Plating	Copper, Passivated
RF Connector Type	SMA Female
Coupler Body Material and Plating	Copper, Passivated

### Environmental Specifications

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

### Plotted and Other Data

Notes:



### Features:

- Three Port Broadwall Waveguide Coupler
- 40±0.7 dB Nominal Coupling Level
- Integrated SMA Female Connector coupled port
- 11.9 GHz to 18 GHz Frequency Range
- Main Line VSWR < 1.1:1
- Max Power 200W (CW)

### Applications:

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

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40 dB WR-62 Waveguide Broadwall Coupler with UG Cover Flange and SMA 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: [40 dB WR-62 Waveguide Broadwall Coupler with UG Cover Flange and SMA Female Coupled Port from 11.9 GHz to 18 GHz in Copper FMW62CP002-40](#)

URL: <https://www.fairviewmicrowave.com/40db-wr62-waveguide-broadwall-coupler-ug-18mhz-fmw62cp002-40-p.aspx>

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