

20 dB WR-10 Waveguide Broadwall Coupler with UG-387/U Round Cover Flange and E-Plane Coupled Port from 75 GHz to 110 GHz in Oxygen Free Hard

The FMW10CP010-20 is a millimeter-wave directional waveguide coupler that operates in the frequency range of 75 to 110 GHz (W Band). This W band component offers a nominal coupling level of 20 dB, mean coupling accuracy of +/- 1.5, coupling flatness of 1.0 dB, and has a maximum VSWR level of 1.1:1. The design is made of gold brass copper and incorporates a multi-hole configuration that results in typical directivity of 40 dB. Common applications for this millimeter wave component involve test setups where power reflection measurements are required that might involve power sampling and frequency monitoring with minimal signal loss to the main transmission path. This E plane coupler uses integrated WR-10 waveguide ports with UG 387/U-Mod flanges. Fairview offers a complete family of waveguide millimeter wave directional couplers that are in-stock for same day shipment.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	75		110	GHz
Coupler				
Nominal Coupling Level		20		dB
Coupling Accuracy			±1.5	dB
Directivity		40		dB
Main Line VSWR		1.1:1		
Secondary Line VSWR			1.17:1	
Coupling Flatness			±1	dB

Mechanical Specifications

Weight	0.312 lbs [141.52 g]
Interface	
Waveguide Size	WR-10
Flange Type	Round Cover
Flange Designation	UG-387/U
Flange Material and Plating	Brass, Gold
Coupler Body Material and Plating	Oxygen Free Hard Copper, Gold

Environmental Specifications

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

Plotted and Other Data

Notes:



Features:

- 20 dB Nominal Coupling Level
- E-Plane Waveguide Coupler
- 75 GHz to 110 GHz Frequency Range
- Body and Flanges made of Brass Copper
- Gold Plated Waveguide
- 1.1:1 VSWR

Applications:

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

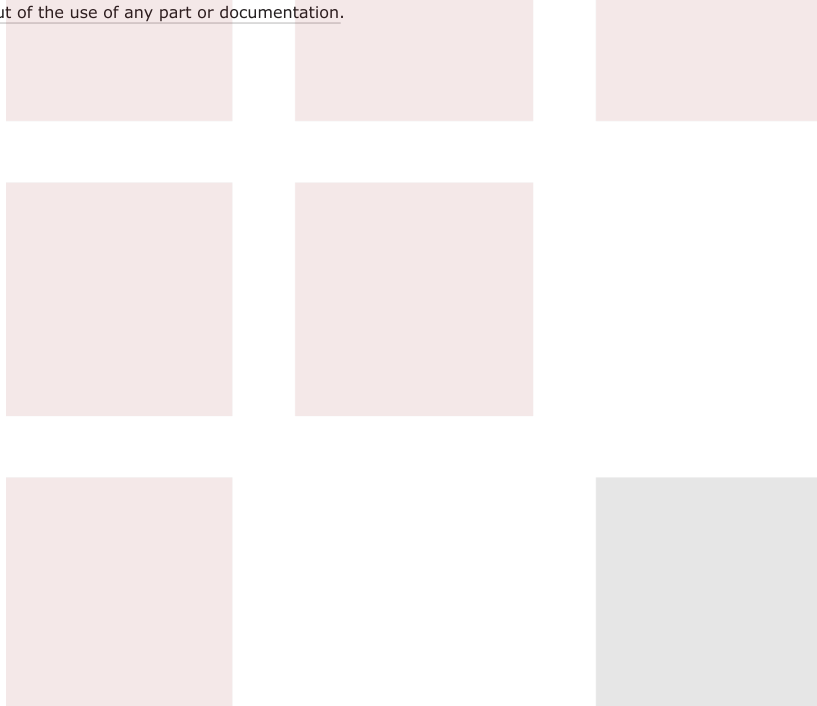
Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

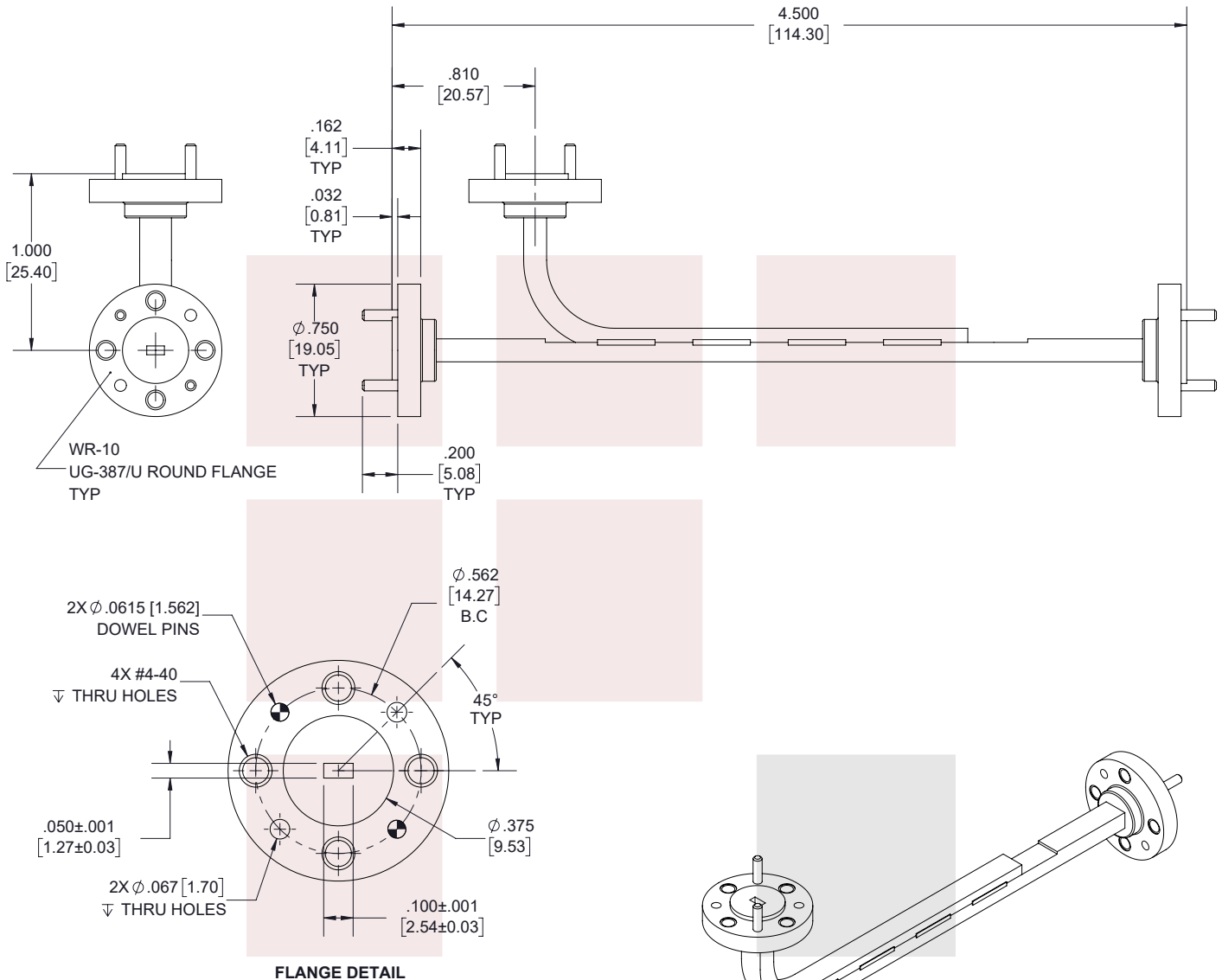
20 dB WR-10 Waveguide Broadwall Coupler with UG-387/U Round Cover Flange and E-Plane Coupled Port from 75 GHz to 110 GHz in Oxygen Free Hard from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [20 dB WR-10 Waveguide Broadwall Coupler with UG-387/U Round Cover Flange and E-Plane Coupled Port from 75 GHz to 110 GHz in Oxygen Free Hard FMW10CP010-20](#)

URL: <https://www.fairviewmicrowave.com/20db-wr10-waveguide-broadwall-coupler-ug387-round-e-110ghz-fmw10cp010-20-p.aspx>

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STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

<p>Fairview Microwave an INFINIT[®] brand</p>		<p>NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].</p>				
<p>TITLE</p> <p>20 dB WR-10 Waveguide Broadwall Coupler with UG-387/U Round Cover Flange and E-Plane Coupled Port from 75 GHz to 110 GHz in Oxygen Free Hard</p>		<p>DWG NO</p> <p>FMW10CP010-20</p>		<p>CAGE CODE</p> <p>3FKR5</p>		
<p>CAD FILE</p> <p>06/03/19</p>		<p>SHEET</p> <p>1 OF 1</p>		<p>SCALE</p> <p>N/A</p>	<p>SIZE</p> <p>A</p>	<p>7361</p>