

## 40 dB WR-28 Waveguide Broadwall Coupler with UG Cover Flange and 2.92mm Female Coupled Port from 26.5 GHz to 40 GHz in Copper

The FMW28CP005-40 is a WR-28 Directional Broadwall waveguide coupler with 2.92mm female coupled port that operates in the frequency range of 26.5 to 40 GHz. This Waveguide component has a maximum VSWR of 1.5:1. 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	26.5		40	GHz
<b>Coupler</b>				
Nominal Coupling Level		40		dB
Directivity	25			dB
Insertion Loss			0.3	dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.5:1	
Coupling Flatness			±0.7	dB
Input Power (CW)			100	Watts
Input Power Peak			20	kWatts

### Mechanical Specifications

<b>Size</b>	
Length	4.53 in [115.06 mm]
Width	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.15 lbs [68.04 g]
Flange Type	UG Cover
Flange Material and Plating	Copper, Gold
RF Connector Type	2.92mm Female
Coupler Body Material and Plating	Copper, Gold

### 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 2.92mm Female Connector coupled port
- 26.5 GHz to 40 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

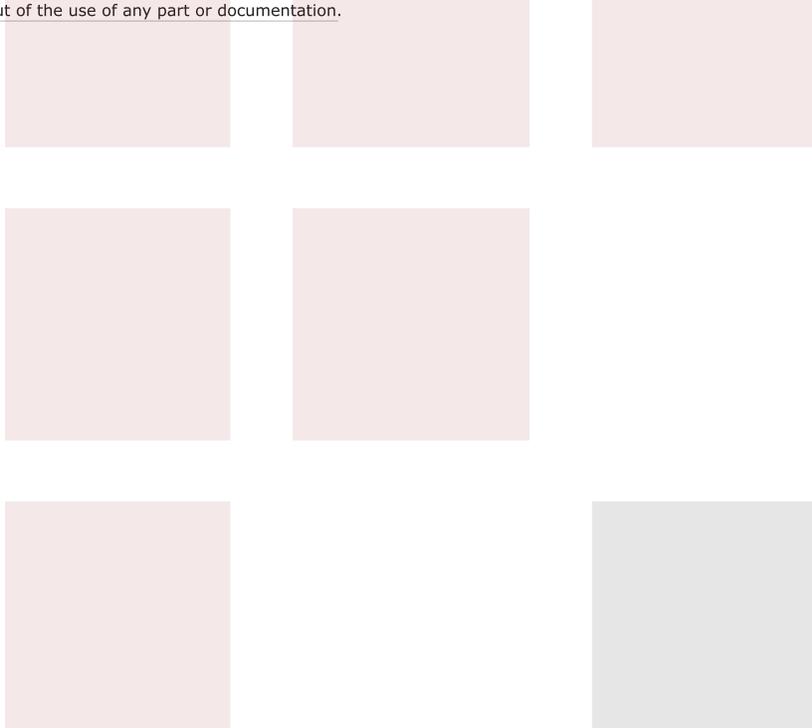
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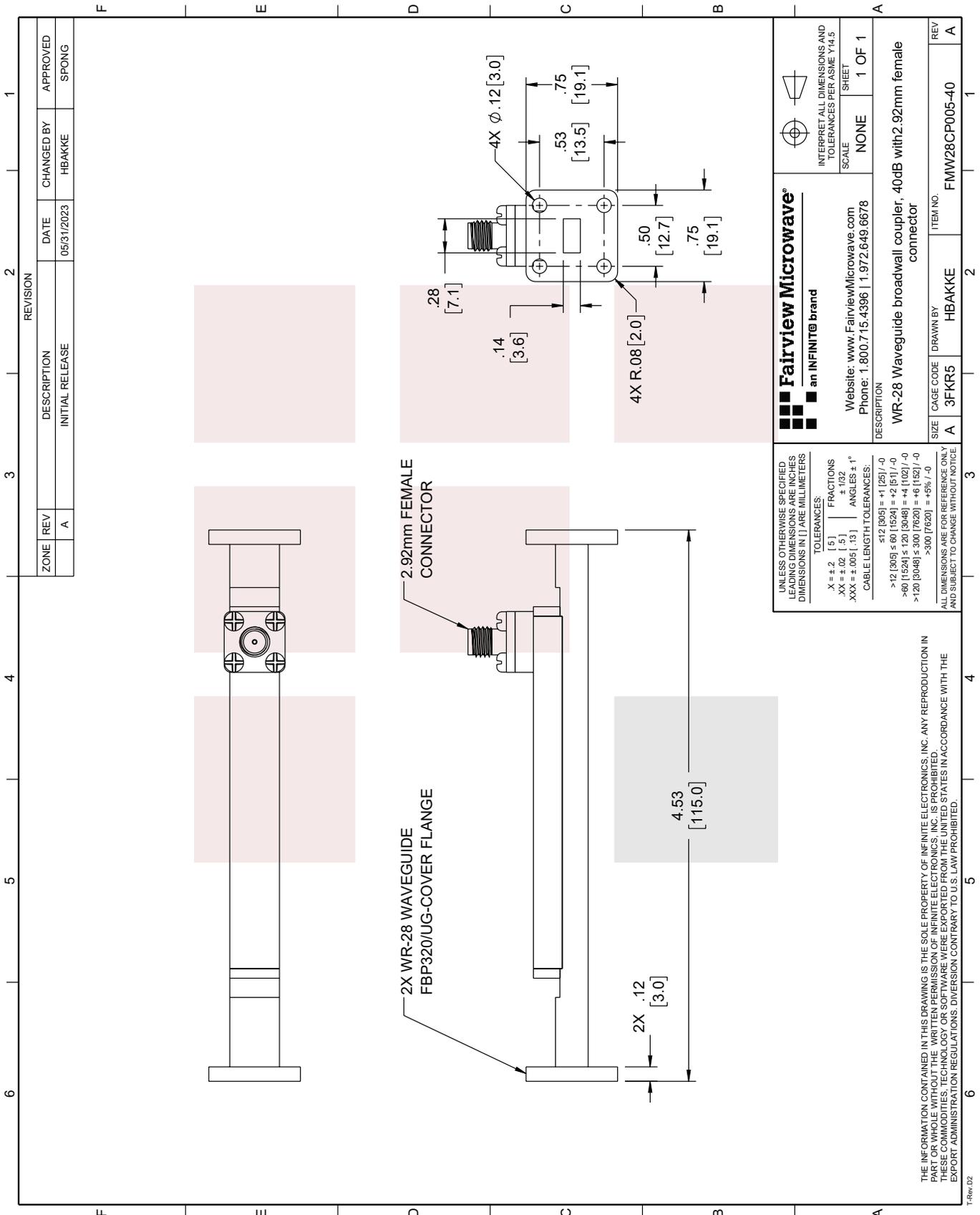
40 dB WR-28 Waveguide Broadwall Coupler with UG Cover Flange and 2.92mm Female Coupled Port from 26.5 GHz to 40 GHz in Copper from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [40 dB WR-28 Waveguide Broadwall Coupler with UG Cover Flange and 2.92mm Female Coupled Port from 26.5 GHz to 40 GHz in Copper FMW28CP005-40](https://www.fairviewmicrowave.com/40db-wr28-waveguide-broadwall-coupler-ug1530-40mhz-fmw28cp005-40-p.aspx)

URL: <https://www.fairviewmicrowave.com/40db-wr28-waveguide-broadwall-coupler-ug1530-40mhz-fmw28cp005-40-p.aspx>

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ZONE		REVISION		DATE		APPROVED	
REV	DESCRIPTION	CHANGED BY	DATE	DATE	DATE	DATE	DATE
A	INITIAL RELEASE	HBAKKE	05/31/2023				SPONG

<p><b>Fairview Microwave</b> an INFINIT<sup>®</sup> brand</p> <p>Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>	
<p>DESCRIPTION: WR-28 Waveguide broadband coupler, 40dB with 2.92mm female connector</p>			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	HBAKKE	FMW28CP005-40
REV			A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.

TOLERANCES:

.X ± .2	[.5]	FRACTIONS	± .132
.XX ± .02	[.5]	ANGLES ± 1°	
.XXX ± .005	[.13]		

CABLE LENGTH TOLERANCES:

512 [305]	= +1 [25] / -0
>12 [305] ≤ 60 [1524]	= +2 [51] / -0
>60 [1524] ≤ 120 [3048]	= +4 [102] / -0
>120 [3048] ≤ 300 [7620]	= +6 [152] / -0
>300 [7620]	= +5% / -0

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