

40 dB WR-75 Waveguide Crossguide Coupler with UG Cover Flange and N Female Coupled Port from 9.84 GHz to 15 GHz in Brass

The FMWCP1085N-40 is a 40 dB WR-75 three port crossguide coupler with integrated N Female connector for the coupled port. This coupler can be mounted directly into the waveguide signal path, connected via coax to allow signal sampling /monitoring. The coupler has a typical VSWR of 1.1:1 and are made of Brass with UG Cover flanges. The FMWCP1085N-40 is part of a family of cross guide couplers offered by Fairview Microwave with coupling values ranging from 20 to 50 dB.



Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	9.84		15	GHz
Coupler				
Nominal Coupling Level		40		dB
Coupling Accuracy			±1.5	dB
Directivity	18			dB
Insertion Loss		0.1		dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.25:1	
Input Power (CW)			500	Watts
Input Power Peak			180	kWatts

Features:

- Three Port Crossguide Waveguide Coupler
- 40±1.5 dB Nominal Coupling Level
- Integrated N Female Connector for the coupled port
- 9.84 GHz to 15 GHz Frequency Range
- Low VSWR < 1.25:1

Applications:

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

Mechanical Specifications

Size

Length	3.268 in [83.01 mm]
Width	2.362 in [59.99 mm]
Height	2.37 in [60.2 mm]
Weight	0.529 lbs [239.95 g]

Interface

Waveguide Size	WR-75
Flange Type	UG Cover
RF Connector Type	N Female

Coupler Body Material and Plating: Brass Copper, Passivated

Environmental Specifications

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

Plotted and Other Data

Notes:

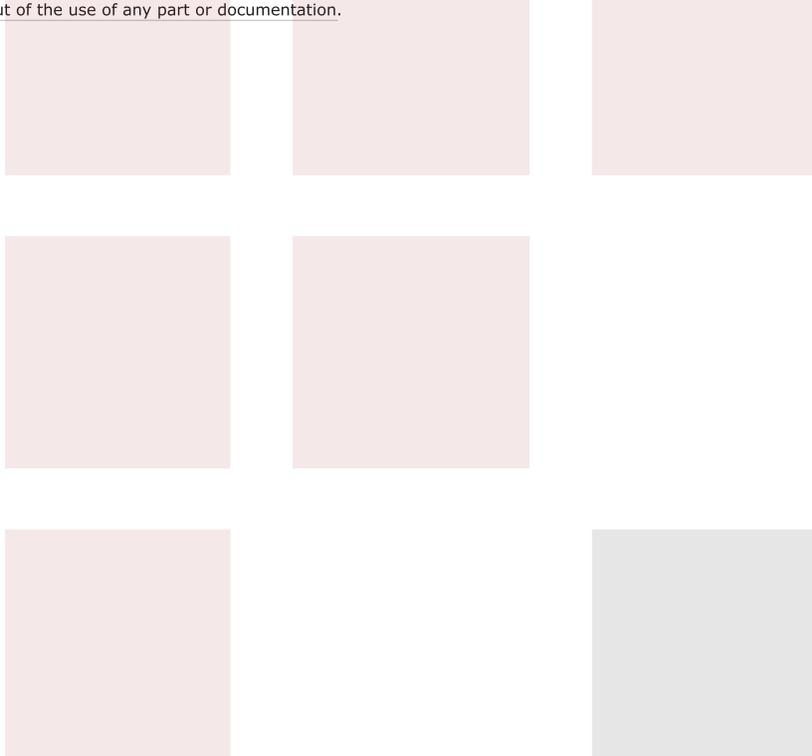
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40 dB WR-75 Waveguide Crossguide Coupler with UG Cover Flange and N Female Coupled Port from 9.84 GHz to 15 GHz in Brass from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

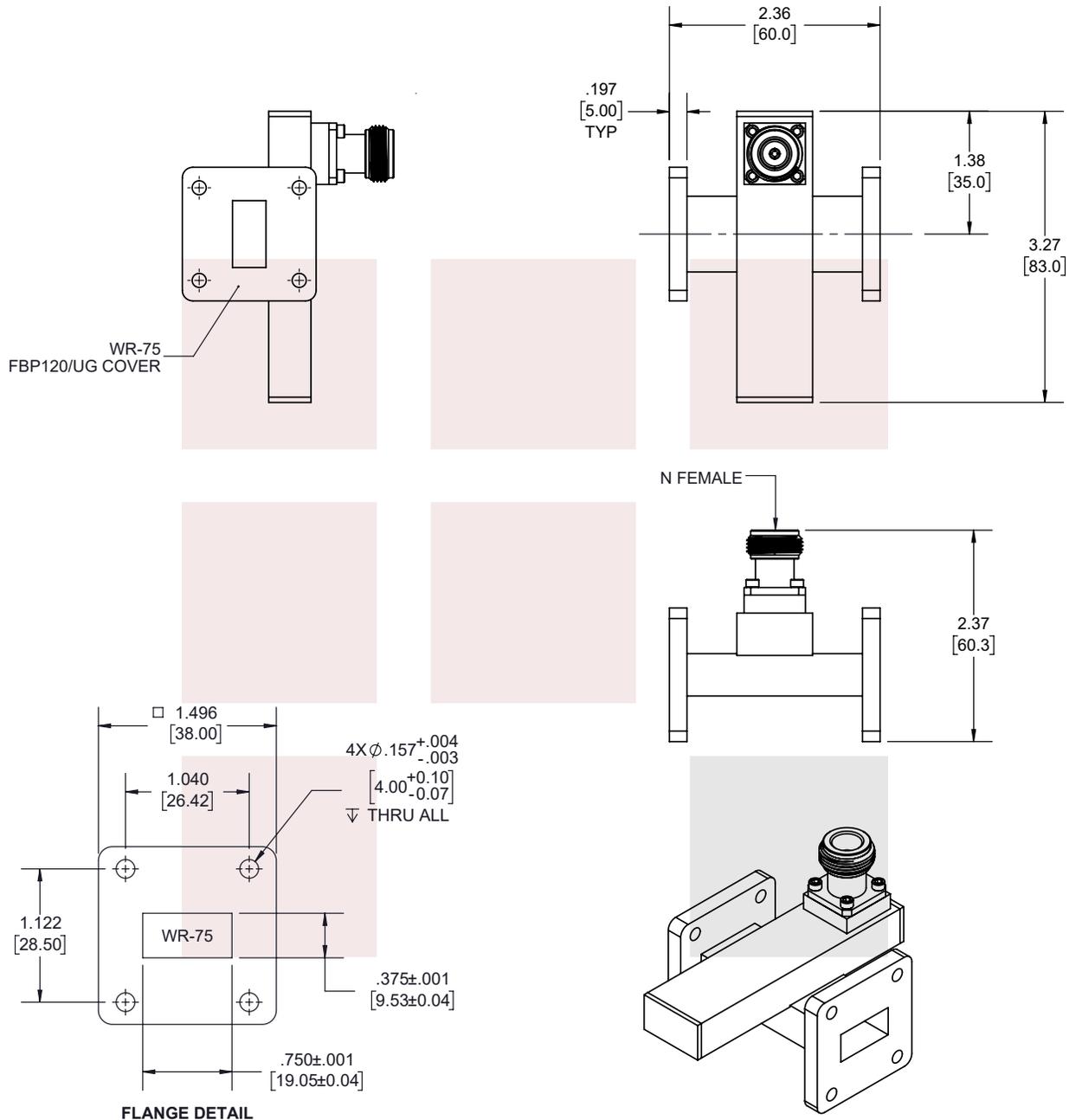
For additional information on this product, please click the following link: [40 dB WR-75 Waveguide Crossguide Coupler with UG Cover Flange and N Female Coupled Port from 9.84 GHz to 15 GHz in Brass FMWCP1085N-40](#)

URL: <https://www.fairviewmicrowave.com/40-db-wr-75-waveguide-crossguide-coupler-fmwcp1085N-40-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	7/7/2022	S. PONG



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TITLE
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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
.XX = ±.02 [.51]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0
.XXX = ±.005 [.13]	ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
		300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FMWCP1085N-40	REV A
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T-Rev.D