

40 dB WR-90 Waveguide Crossguide Coupler with UG Cover Flange and N Female Coupled Port from 8.2 GHz to 12.5 GHz in Aluminum

The FMWCP1084N-40 is a 40 dB WR-90 three port crossguide coupler with intergrated 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 Aluminum with UG Cover flanges. The FMWCP1084N-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	Тур	Max	Units
Frequency Range	8.2		12.5	GHz
Coupler				
Nominal Coupling Lev	el	40		dB
Coupling Accuracy			±1.5	dB
Directivity	18			dB
Insertion Loss		0.1		dB
Main Line VSWR			1.1:1	
Secondary Line VSW	R		1.25:1	
Input Power (CW)			600	Watts
Input Power Peak			200	kWatts

Mechanical Specifications

Size Length Width Height Weight		3.346 in [84.99 mm] 2.756 in [70 mm] 2.45 in [62.23 mm] 0.441 lbs [200.03 g]
Interface Waveguide Size Flange Type RF Connector Type		WR-90 UG Cover N Female
Coupler Body Material a	Aluminum, Chromate	

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

FMWCP1084N-40 DATA SHEET



Features:

- Three Port Crossguide Waveguide Coupler
- 40±1.5 dB Nominal Coupling Level
- Integrated N Female Connector for the coupled port
- 8.2 GHz to 12.5 GHz Frequency Range
- Low VSWR < 1.25:1

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

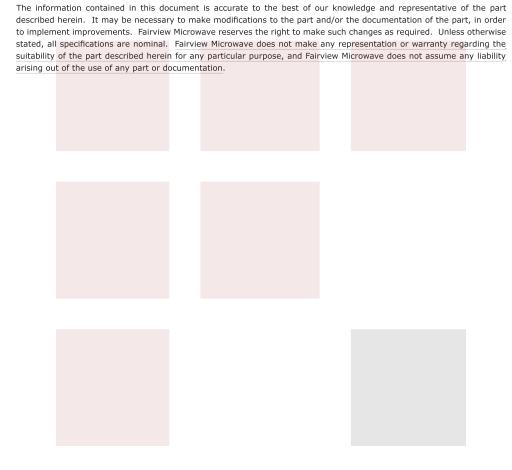




40 dB WR-90 Waveguide Crossguide Coupler with UG Cover Flange and N Female Coupled Port from 8.2 GHz to 12.5 GHz in Aluminum from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 40 dB WR-90 Waveguide Crossguide Coupler with UG Cover Flange and N Female Coupled Port from 8.2 GHz to 12.5 GHz in Aluminum FMWCP1084N-40

URL: https://www.fairviewmicrowave.com/40-db-wr-90-waveguide-crossguide-coupler-fmwcp1084N-40-p.aspx



301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689





