

20 dB WR-90 Waveguide Crossguide Coupler with UG Cover Flange and N Female Coupled Port from 9 GHz to 10 GHz in Aluminum

The FMWCP1084-20 is a 20 dB WR-90 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 Aluminum with UG Cover flanges. The FMWCP1084-20 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		10	GHz
Coupler				
Nominal Coupling Level		20		dB
Coupling Accuracy			±0.7	dB
Directivity	20			dB
Insertion Loss		0.1		dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.25:1	
Input Power (CW)			600	Watts
Input Power Peak			50	kWatts

Mechanical Specifications

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

Environmental Specifications

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

Plotted and Other Data

Notes:

Features:

- Three Port Crossguide Waveguide Coupler
- 20±0.7 dB Nominal Coupling Level
- Integrated N Female Connector for the coupled port
- 9 GHz to 10 GHz Frequency Range
- Low VSWR < 1.25:1

Applications:

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

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20 dB WR-90 Waveguide Crossguide Coupler with UG Cover Flange and N Female Coupled Port from 9 GHz to 10 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: [20 dB WR-90 Waveguide Crossguide Coupler with UG Cover Flange and N Female Coupled Port from 9 GHz to 10 GHz in Aluminum FMWCP1084-20](#)

URL: <https://www.fairviewmicrowave.com/20-db-wr-90-waveguide-crossguide-coupler-fmwcp1084-20-p.aspx>

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