

## 30 dB WR-112 Waveguide Crossguide Coupler with UG Cover Flange and N Female Coupled Port from 6.57 GHz to 9.99 GHz in Aluminum

The FMWCP1083-30 is a 30 dB WR-112 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 FMWCP1083-30 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	6.57		9.99	GHz
<b>Coupler</b>				
Nominal Coupling Level		30		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)			800	Watts
Input Power Peak			300	kWatts

### Mechanical Specifications

<b>Size</b>	
Length	4.724 in [119.99 mm]
Width	3.228 in [81.99 mm]
Height	2.79 in [70.87 mm]
Weight	0.661 lbs [299.82 g]
<b>Interface</b>	
Waveguide Size	WR-112
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
- 30±1.5 dB Nominal Coupling Level
- Integrated N Female Connector for the coupled port
- 6.57 GHz to 9.99 GHz Frequency Range
- Low VSWR < 1.25:1

### Applications:

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

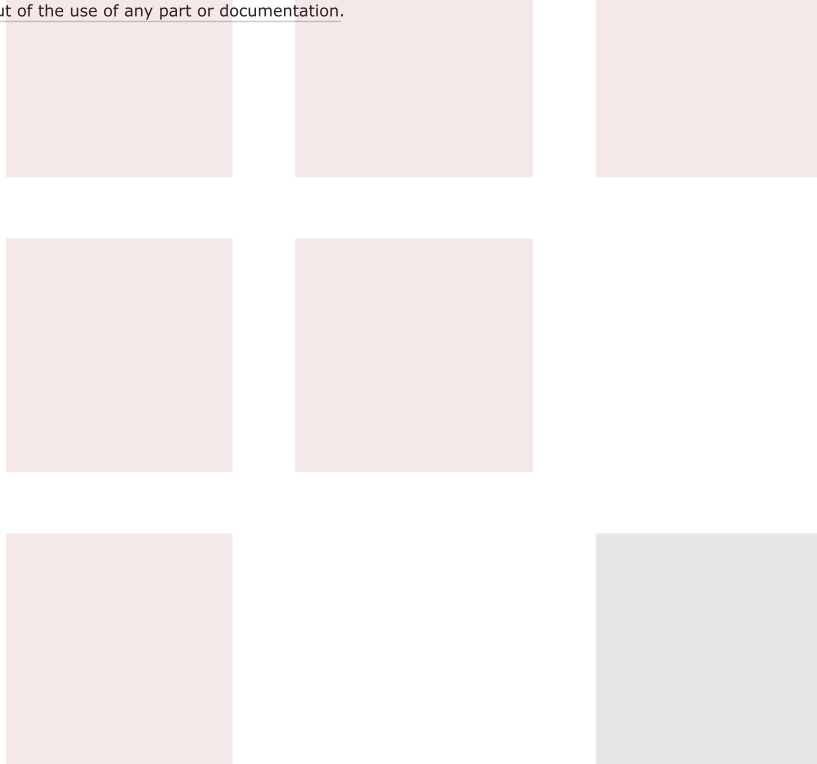
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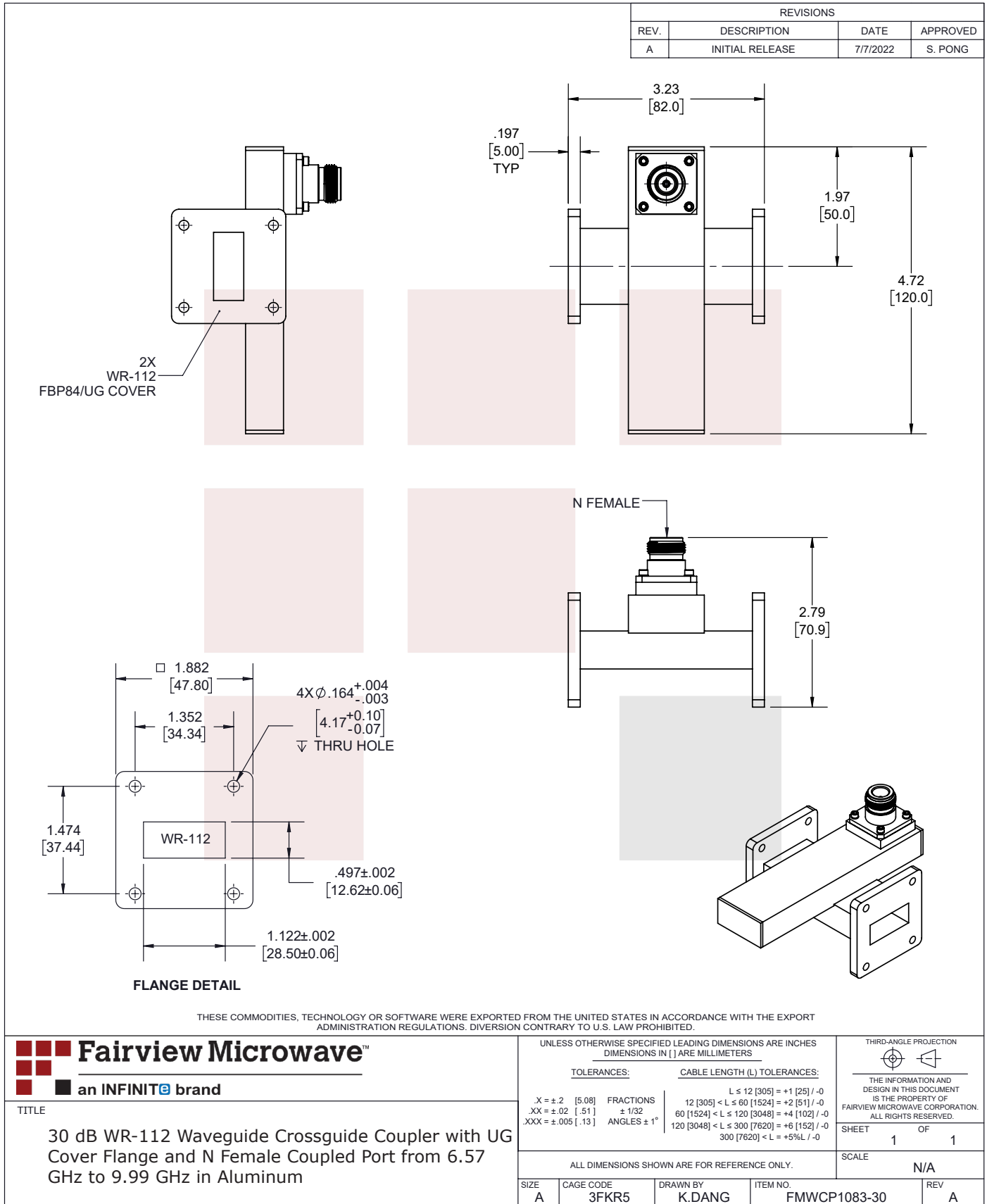
30 dB WR-112 Waveguide Crossguide Coupler with UG Cover Flange and N Female Coupled Port from 6.57 GHz to 9.99 GHz in Aluminum from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [30 dB WR-112 Waveguide Crossguide Coupler with UG Cover Flange and N Female Coupled Port from 6.57 GHz to 9.99 GHz in Aluminum FMWCP1083-30](#)

URL: <https://www.fairviewmicrowave.com/30-db-wr-112-waveguide-crossguide-coupler-fmwcp1083-30-p.aspx>

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