

30 dB WR-112 Waveguide Crossguide Coupler with UG-51/U Square Cover Flange and N Female Coupled Port from 7.05 GHz to 10 GHz in Bronze

The FMWCT1093 is a 30 dB WR-112 four port crossguide coupler with one coupled port terminated (making it a three port coupler) and a coax adapter on the opposite 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 1.05:1 and are made of bronze with brass UG-51/U Square Cover flanges. The FMWCT1093 is part of a family of cross guide couplers offered by Fairview with coupling values ranging from 20 to 50 dB. There is also a full family of top wall (broad wall) couplers. For the three port version of this coupler (terminated but no coax adapter) please see the FMWCT1029. For the four port version of this coupler (no termination, no coax adapter) please see the FMWCP1064.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	7.05		10	GHz
Impedance		50		Ohms
Coupler				
Nominal Coupling Level		30		dB
Directivity		25		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Termination				
Input Power (CW)			5	Watts
Waveguide to Coax Adapters				
VSWR		1.25:1		

Mechanical Specifications

Interface	
Waveguide Size	WR-112
Flange Type	Square Cover
Flange Designation	UG-51/U
Flange Material and Plating	Brass
RF Connector Type	N Female
Coupler Body Material and Plating	Bronze
Termination Body Material and Plating	Bronze

Environmental Specifications

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

Plotted and Other Data

Notes:



Features:

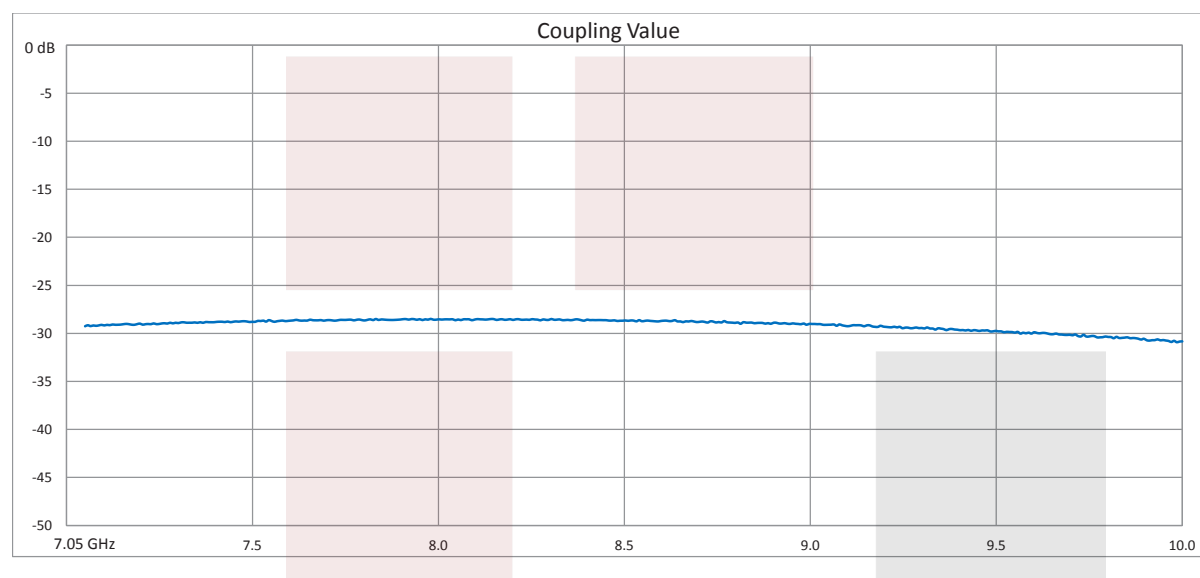
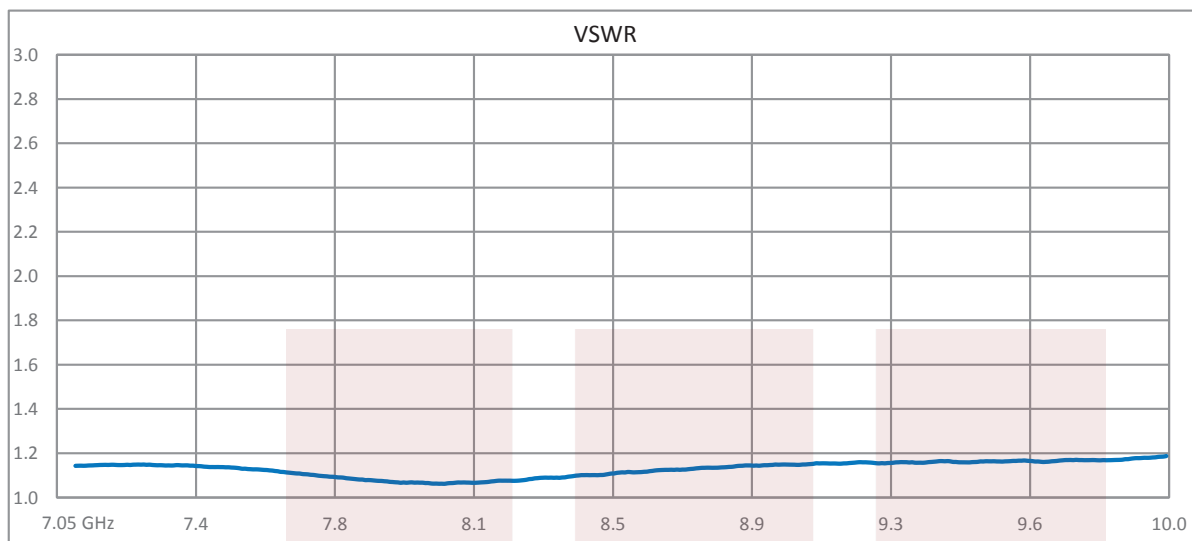
- Three Port
- Crossguide Waveguide Coupler
- Terminated
- 30 dB Nominal Coupling Level
- N Female Coax Adapter
- 7.05 GHz to 10 GHz Frequency Range
- Waveguide Body made of Bronze with Brass Flanges
- Low VSWR

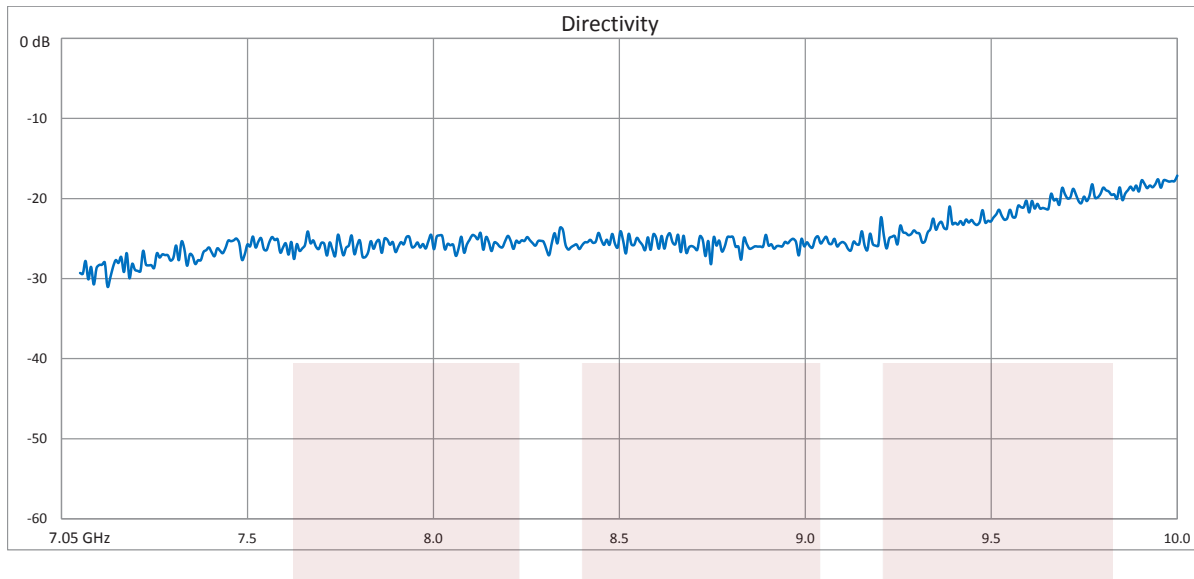
Applications:

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

Fairview Microwave
1130 Junction Dr. #100
Allen, TX 75013
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Typical Performance Data





30 dB WR-112 Waveguide Crossguide Coupler with UG-51/U Square Cover Flange and N Female Coupled Port from 7.05 GHz to 10 GHz in Bronze 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 Allen, 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-51/U Square Cover Flange and N Female Coupled Port from 7.05 GHz to 10 GHz in Bronze FMWCT1093](https://www.fairviewmicrowave.com/30db-wr112-waveguide-crossguide-coupler-ug51-square-n-10ghz-fmw-ct1093-p.aspx)

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