Fairview Microwave
RF COMPONENTS ON DEMAND. Done!

FMWCT1035
DATA SHEET

50 dB WR-112 Waveguide Crossguide 3 Port Coupler with CPR-112G Flange from 7.05 GHz to 10 GHz in Bronze

The FMWCT1035 is a 50 dB three port, terminated WR-112 crossguide waveguide coupler that operates in the frequency range of 7.05 to 10 GHz. The coupler has a typical VSWR of 1.05 These designs are made of Bronze with Brass CPR-112G Flanges. Fairview offers a complete family of crossguide couplers in both three port (terminated) and four port (unterminated) configurations that are in stock and ship on the same day. Top wall couplers are also available.

Features:

- Three Port
- Crossguide Waveguide Coupler
- Terminated
- 50 dB Nominal Coupling Level
- 7.05 GHz to 10 GHz Frequency Range
- Waveguide Body made of Bronze with Brass Flanges
- Low VSWR
- Grooved CPR

Applications:

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

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	7.05		10	GHz
Coupler				
Nominal Coupling Level		50		dB
Directivity		10		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Termination				
VSWR		1.02		
Input Power (CW)			5	Watts

Mechanical Specifications

Size	
Length	8.75 in [222.25 mm]
Width	4 in [101.6 mm]
Interface	
Waveguide Size	WR-112
Flange Type	CPR-112G
Flange Material and Plating	Brass
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:

Fairview Microwave
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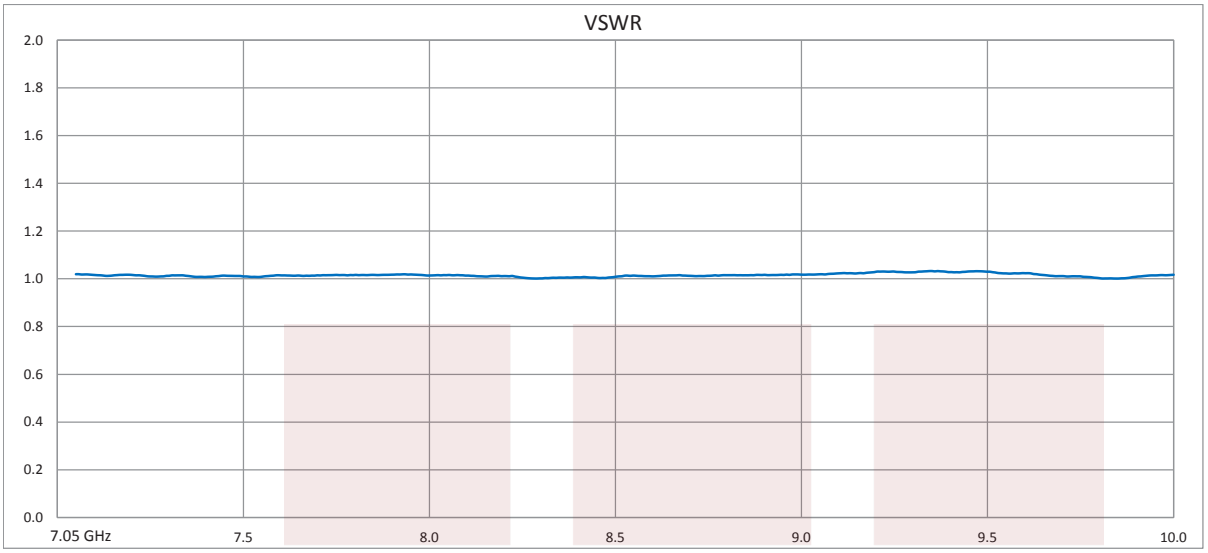
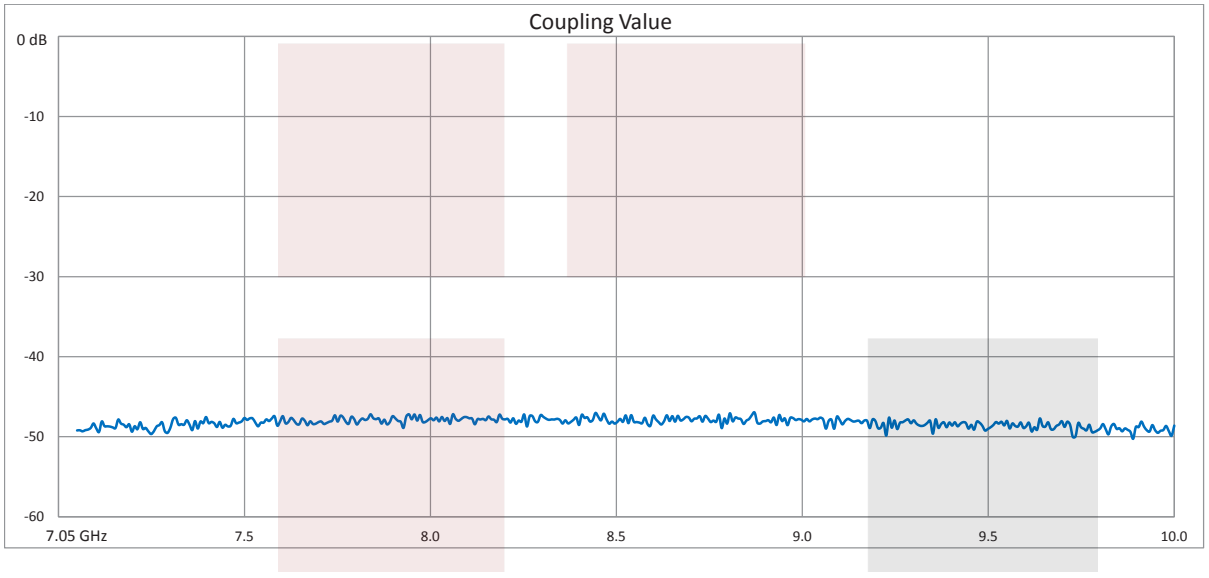
Typical Performance Data





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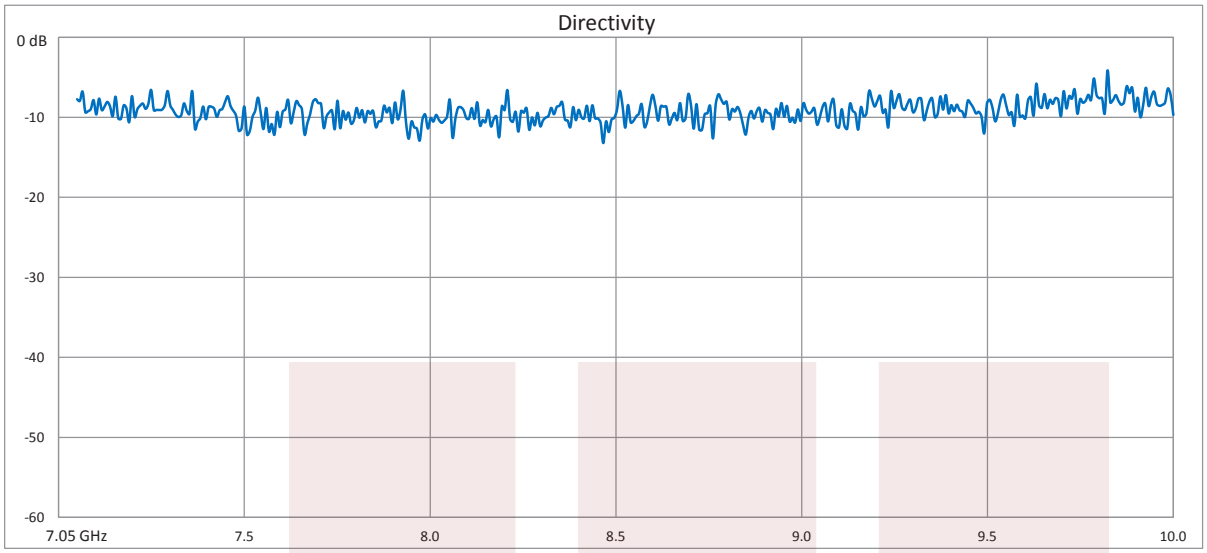
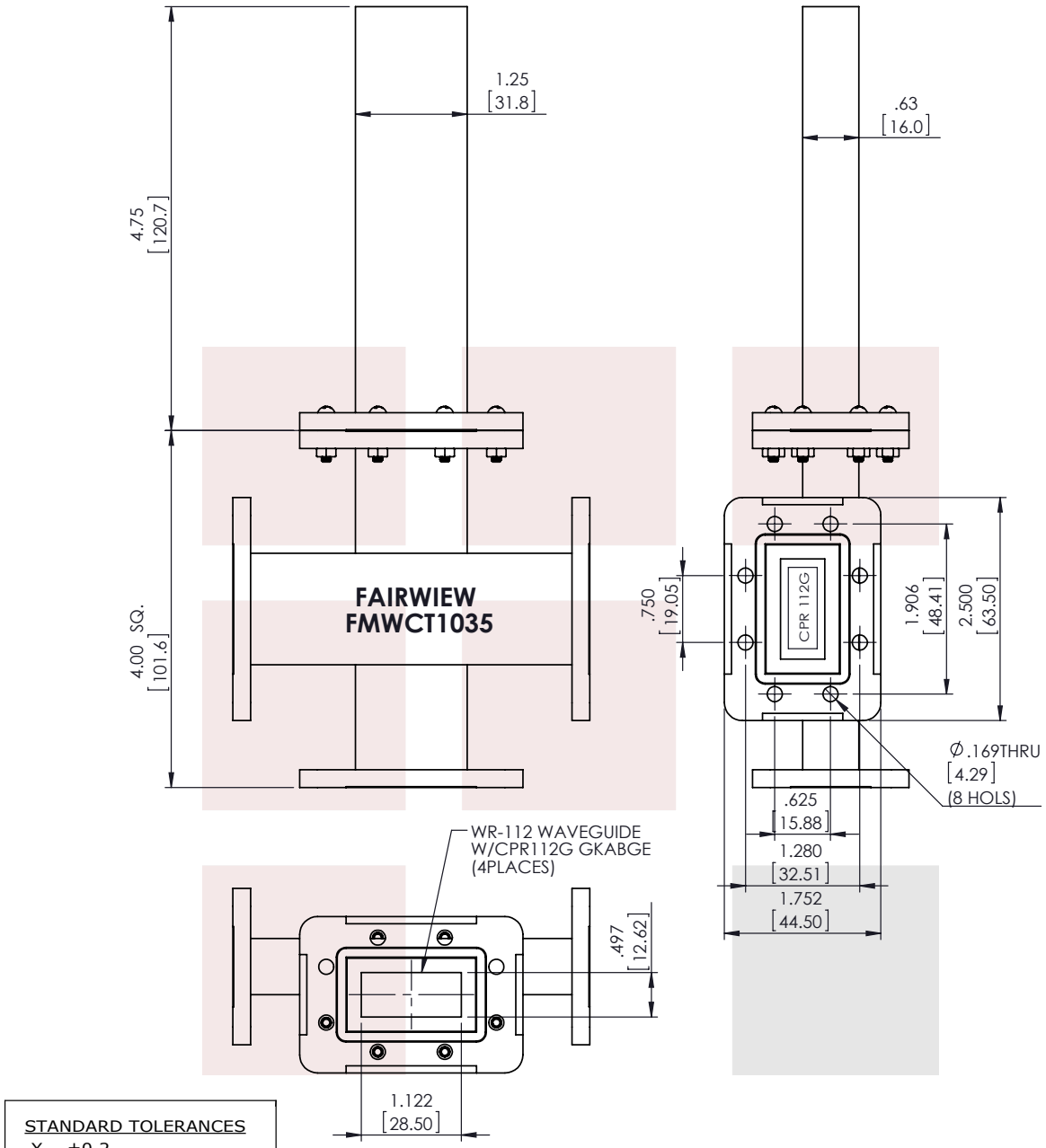


50 dB WR-112 Waveguide Crossguide 3 Port Coupler with CPR-112G Flange from 7.05 GHz to 10 GHz in Bronze from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 50 dB WR-112 Waveguide Crossguide 3 Port Coupler with CPR-112G Flange from 7.05 GHz to 10 GHz in Bronze FMWCT1035

URL: https://www.fairviewmicrowave.com/50-db-wr-112-waveguide-crossguide-coupler-cpr-112g-3-port-fmwct1035-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



STANDARD TOLERANCES
.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC.
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NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

TITLE	DWG NO	CAGE CODE
50 dB WR-112 Waveguide Crossguide 3 Port Coupler with CPR-112G Flange from 7.05 GHz to 10 GHz in Bronze	FMWCT1035	3FKR5

CAD FILE 050417	SHEET	SCALE N/A	SIZE A	0157

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