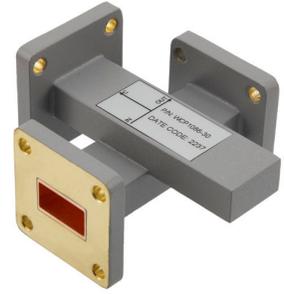


## 30 dB WR-62 Waveguide Crossguide 3 Port Coupler with UG Cover Flange from 11.9 GHz to 18 GHz in Brass

The FMWCP1086-30 is a 30 dB WR-62 three port crossguide coupler with integrated UG Cover Flange for the coupled port. This coupler can be mounted directly into the waveguide signal path, connected via waveguide to allow signal sampling /monitoring. The coupler has a typical VSWR of 1.1:1 and are made of Brass with UG Cover flanges. The FMWCP1086-30 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	11.9		18	GHz
<b>Coupler</b>				
Nominal Coupling Level		30		dB
Coupling Accuracy			±1.5	dB
Directivity	17			dB
Insertion Loss		0.15		dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.15:1	
Input Power (CW)			400	Watts
Input Power Peak			120	kWatts

### Mechanical Specifications

<b>Size</b>	
Length	2.559 in [65 mm]
Width	2.362 in [59.99 mm]
Height	1.311 in [33.3 mm]
Weight	0.287 lbs [130.18 g]
<b>Interface</b>	
Waveguide Size	WR-62
Flange Type	UG Cover
Coupler Body Material and Plating	Brass Copper, Passivated

### 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
- 11.9 GHz to 18 GHz Frequency Range
- Low VSWR < 1.15:1
- 

### Applications:

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

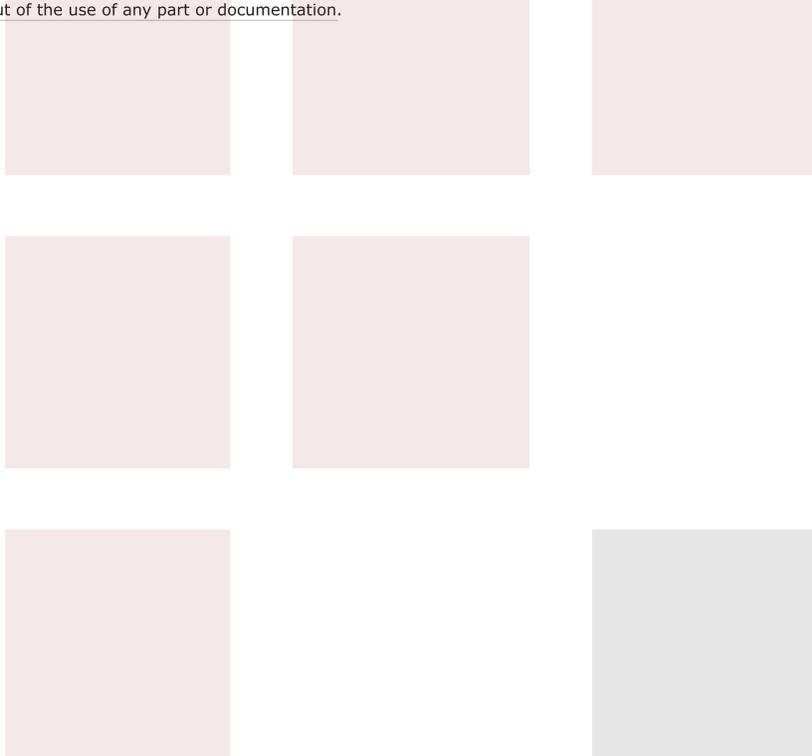
Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

30 dB WR-62 Waveguide Crossguide 3 Port Coupler with UG Cover Flange from 11.9 GHz to 18 GHz in Brass 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.

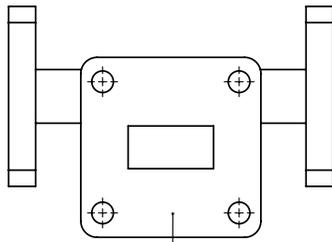
For additional information on this product, please click the following link: [30 dB WR-62 Waveguide Crossguide 3 Port Coupler with UG Cover Flange from 11.9 GHz to 18 GHz in Brass FMWCP1086-30](#)

URL: <https://www.fairviewmicrowave.com/30-db-wr-62-waveguide-crossguide-coupler-fmwcp1086-30-p.aspx>

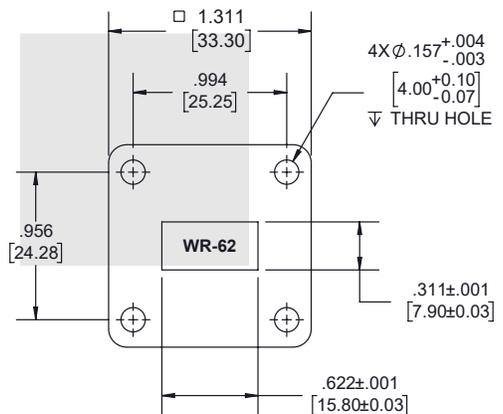
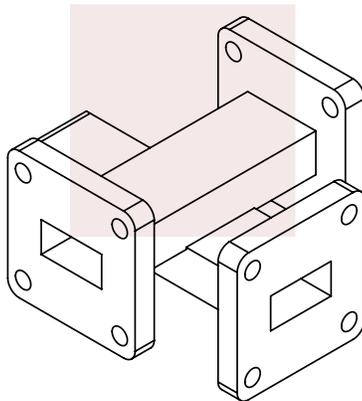
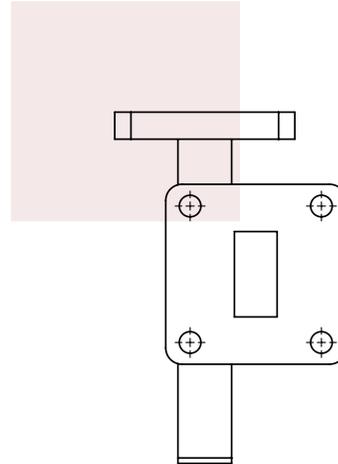
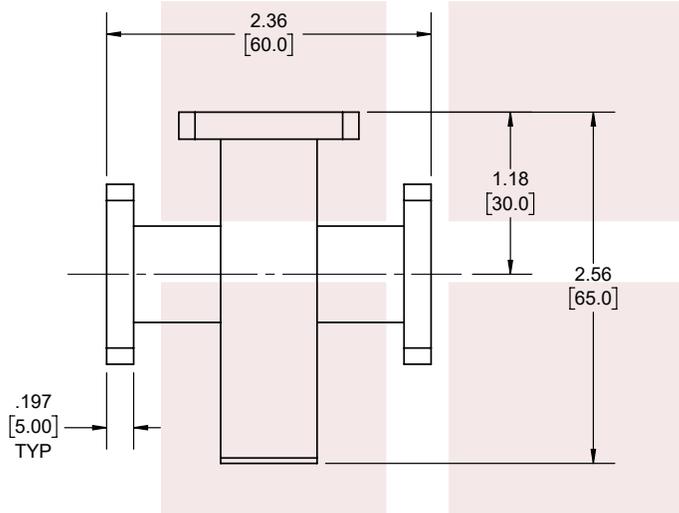
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	7/7/2022	S. PONG



3X  
WR-62  
FBP140/UG COVER



FLANGE DETAIL

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TITLE  
30 dB WR-62 Waveguide Crossguide 3 Port Coupler with UG Cover Flange from 11.9 GHz to 18 GHz in Brass

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS  
.XX = ±.02 [.51] ± 1/32  
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0  
12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FMWCP1086-30	REV A
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T-Rev.D