

## WR-112 Seamless Flexible Waveguide Using UG-51/U Square Cover Flange With a 7.05 GHz to 10 GHz Frequency Range

The SMW112SF005-24 is part of Fairview Microwave's family of flexible, seamless waveguides which operates in the 7.05 to 10 GHz range. The waveguide body is made of silver plated brass. It can be bent in both the E and H planes without impairing VSWR or attenuation. The waveguide is covered by a neoprene jacket which protects the waveguide and provides mechanical support.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	7.05		10	GHz
VSWR		1.07:1		

### Mechanical Specifications

Waveguide Size	WR-112
Waveguide Design	Seamless
Section Length	24 in [609.6 mm]
E-Plane Minimum Bend Radius, One Time	0.98 in [24.89 mm]
H-Plane Minimum Bend Radius, One Time	1.77 in [44.96 mm]
Maximum Operating Pressure	35 psig

Description	Flange 1	Waveguide	Flange 2
Type	Square Cover	WR-112	Square Cover
Designation	UG-51/U		UG-51/U
Material	Brass	Copper	Brass
Plating		Silver	
Color	Gold	Black	Gold

### Compliance Certifications (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant	Yes
REACH Compliant	12/17/2014

### Plotted and Other Data

- Notes:
- Notes, Plotted Data



### Features:

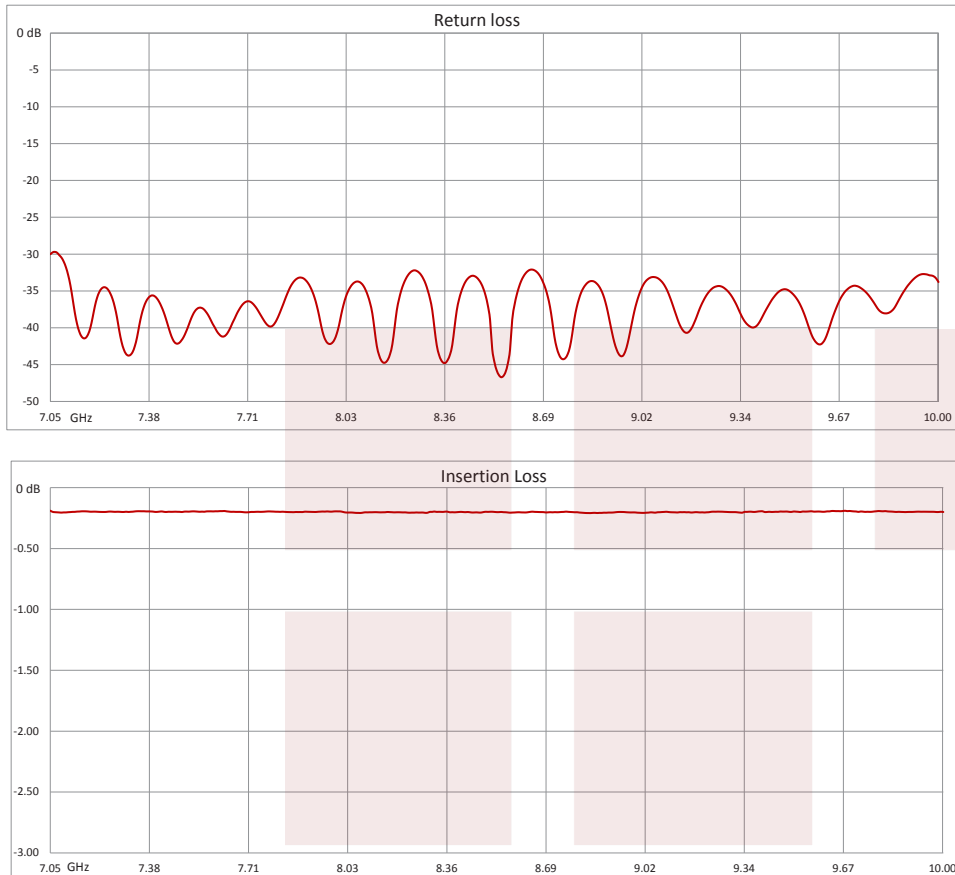
- WR-112 waveguide
- Flexes in both the E and H plane
- 7.05 GHz to 10 GHz Frequency Range
- Brass flanges with a silver plated brass body
- Neoprene sleeve provides added protection and mechanical support

### Applications:

- Allows expansion/contraction due to thermal issues.
- Test Benches
- Microwave Radio
- Eliminates installation problems caused by misalignment.
- Pressurized waveguide systems
- Provides vibration isolation

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### Typical Performance Data

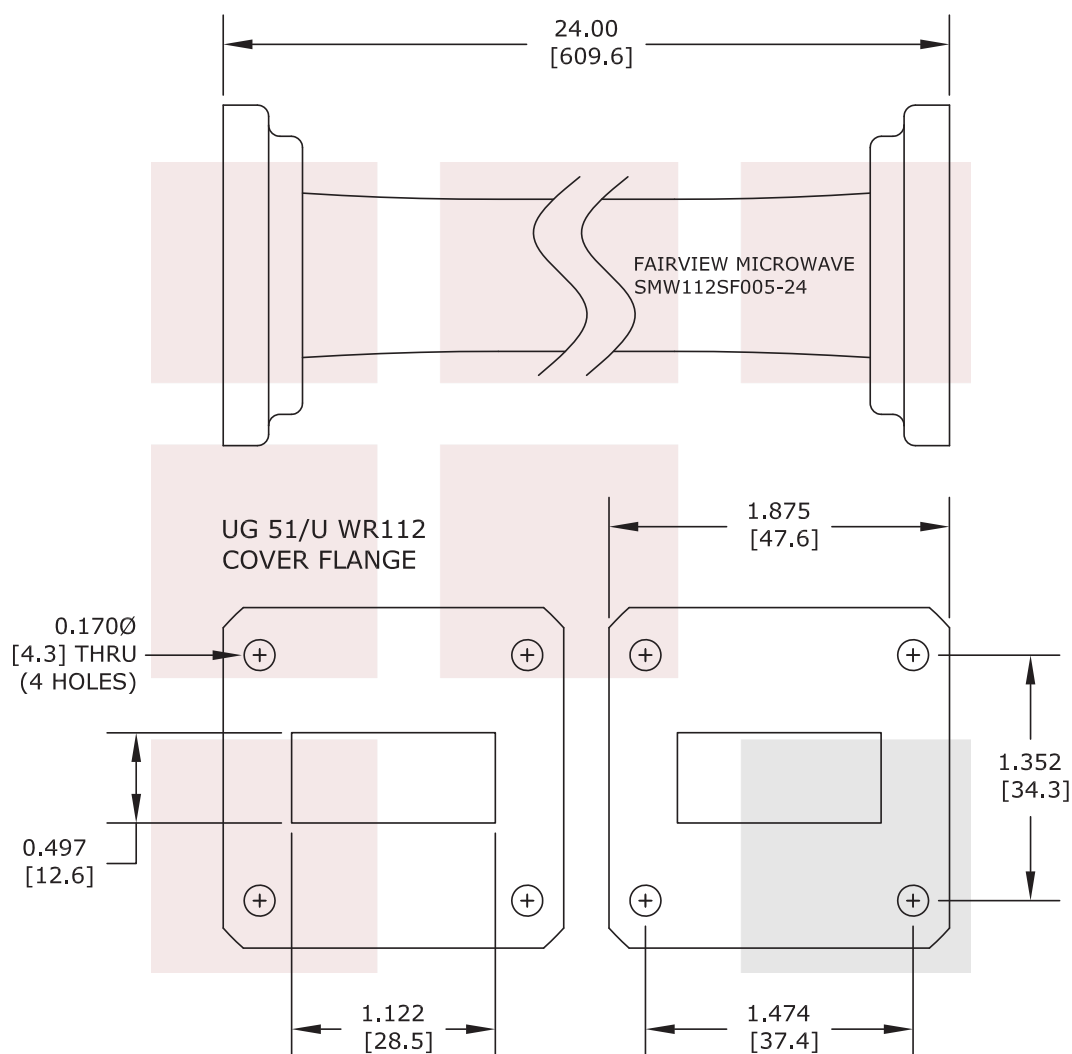


WR-112 Seamless Flexible Waveguide Using UG-51/U Square Cover Flange With a 7.05 GHz to 10 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-112 Seamless Flexible Waveguide Using UG-51/U Square Cover Flange With a 7.05 GHz to 10 GHz Frequency Range SMW112SF005-24](https://www.fairviewmicrowave.com/wr-112-seamless-flexible-waveguide-ug51-square-7.05-10-ghz-smw112sf005-24-p.aspx)

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TITLE WR-112 Seamless Flexible Waveguide Using UG-51/U Square Cover Flange With a 7.05 GHz to 10 GHz Frequency Range		DWG NO SMW112SF005-24		CAGE CODE 3FKR5	
CAD FILE	101315	SHEET	SCALE	N/A	SIZE A 2233