

WR-51 Seamless Flexible Waveguide Using Square Cover Flange With a 15 GHz to 22 GHz Frequency Range

The SMW51SF005-36 is part of Fairview Microwave's family of flexible, seamless waveguides which operates in the 15 to 22 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	15		22	GHz
VSWR		1.1:1		
Insertion Loss		0.54		dB

Mechanical Specifications

Waveguide Size	WR-51
Waveguide Design	Seamless
Section Length	36 in [914.4 mm]
E-Plane Minimum Bend Radius, One Time	0.59 in [14.99 mm]
H-Plane Minimum Bend Radius, One Time	0.98 in [24.89 mm]
Maximum Offset Rotation, One Time	45 degrees/ft

Description	Flange 1	Waveguide	Flange 2
Type	Square Cover	WR-51	Square Cover
Designation	None		None
Material	Brass	Copper	Brass
Plating		Silver	
Color	Gold	Black	Gold

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant	Yes
REACH Compliant	12/17/2015

Plotted and Other Data

- Notes:
- Notes, Plotted Data



Features:

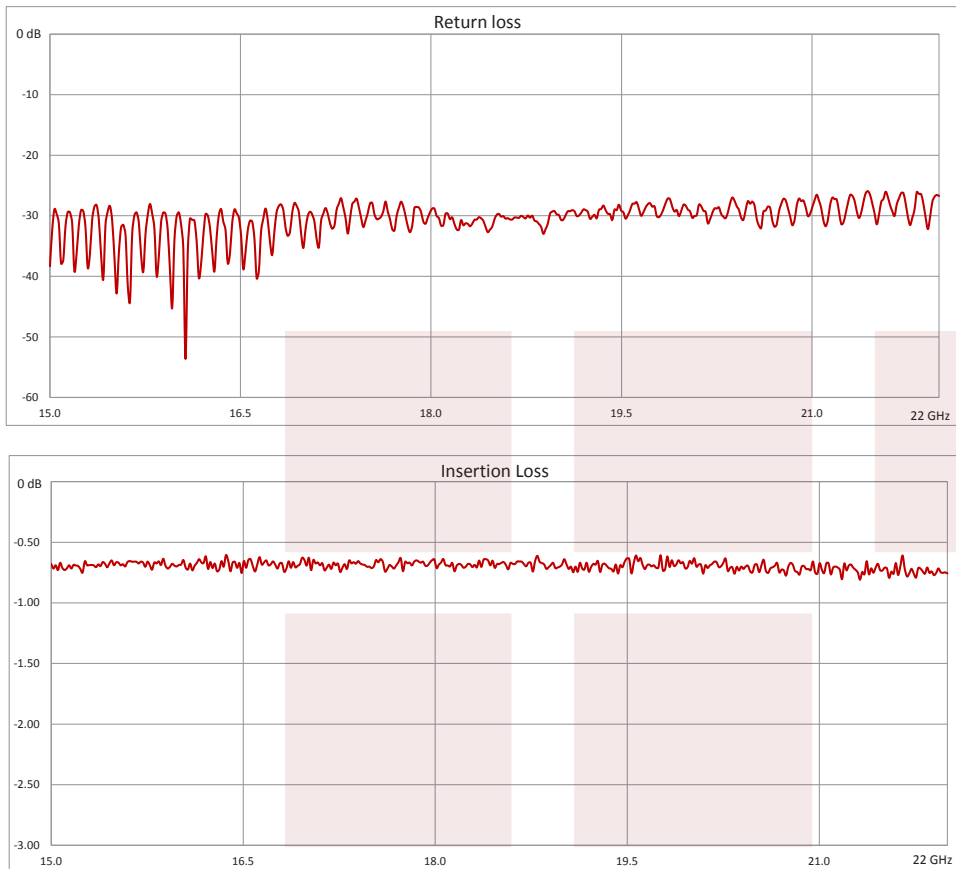
- WR-51 waveguide
- Flexes in both the E and H plane
- 15 GHz to 22 GHz Frequency Range
- Brass flanges with a silver plated brass body
- Neoprene sleeve provides added protection and mechanical support

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

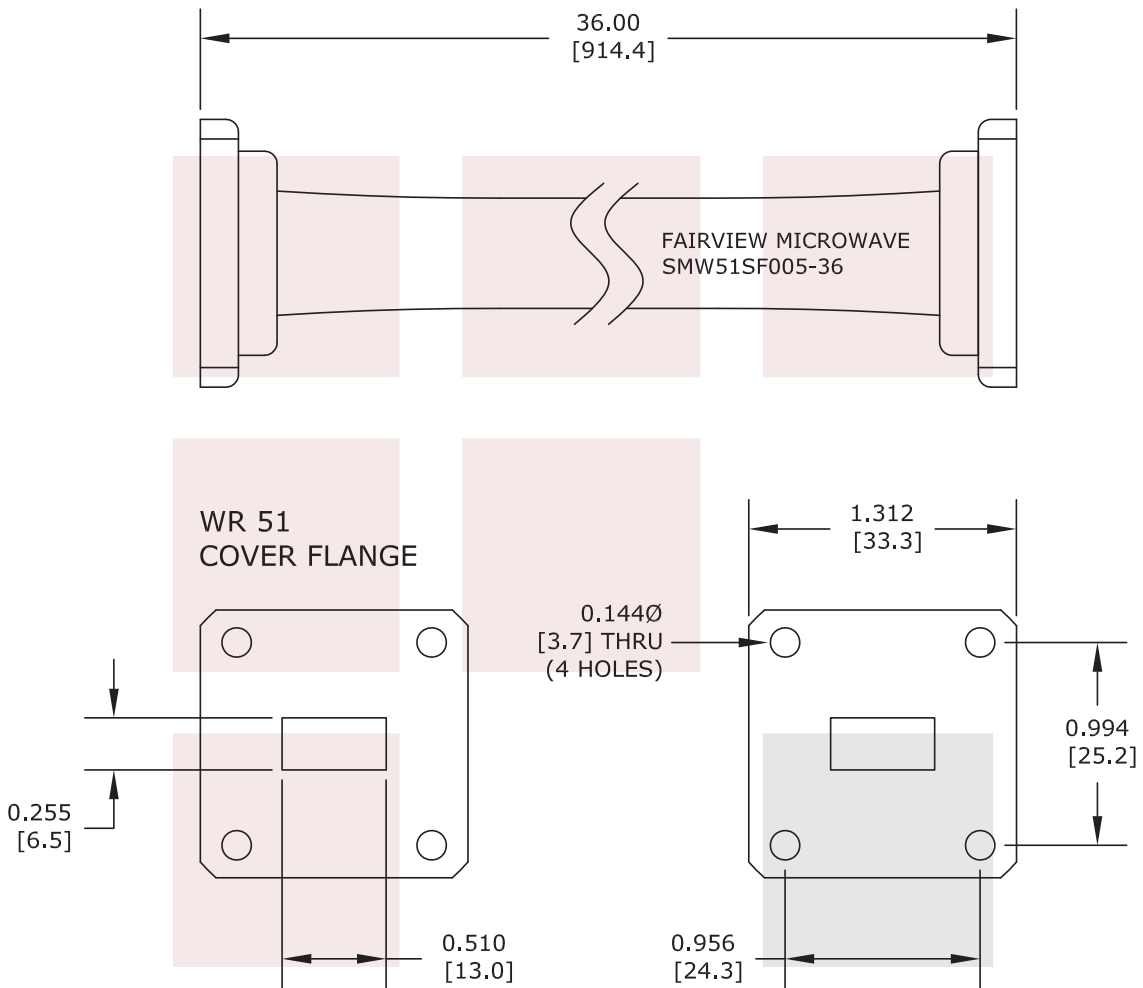


WR-51 Seamless Flexible Waveguide Using Square Cover Flange With a 15 GHz to 22 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-51 Seamless Flexible Waveguide Using Square Cover Flange With a 15 GHz to 22 GHz Frequency Range SMW51SF005-36](https://www.fairviewmicrowave.com/wr-51-seamless-flexible-waveguide-square-15-22-ghz-smw51sf005-36)

URL: <https://www.fairviewmicrowave.com/wr-51-seamless-flexible-waveguide-square-15-22-ghz-smw51sf005-36-p.aspx>

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TITLE WR-51 Seamless Flexible Waveguide Using Square Cover Flange With a 15 GHz to 22 GHz Frequency Range		DWG NO SMW51SF005-36		CAGE CODE 3FKR5	
CAD FILE	101315	SHEET	SCALE	N/A	SIZE
				A	2233