

WR-90 Seamless Flexible Waveguide in 36 Inch Using UG-39/U Square Cover Flange With a 8.2 GHz to 12.4 GHz Frequency Range

The SMW90SF005-36 is part of Fairview Microwave's family of flexible, seamless waveguides which operates in the 8.2 to 12.4 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	Тур	Max	Units
Frequency Range	8.2		12.4	GHz
VSWR		1.07:1		
Insertion Loss		0.27		dB
Input Power			3	kWatts
Peak Power			180	kWatts

Mechanical Specifications

Waveguide Size Waveguide Design Section Length

E-Plane Minimum Bend Radius, One Time H-Plane Minimum Bend Radius, One Time Maximum Offset Rotation, One Time

WR-90 Seamless 36 in [914.4 mm] 0.87 in [22.1 mm] 1.69 in [42.93 mm] 45 degrees/ft

Flange 1	Waveguide	Flange 2
Square Cover	WR-90	Square Cover
UG-39/U		UG-39/U
Brass	Copper	Brass
	Silver	
Gold	Black	Gold
	Square Cover UG-39/U Brass	Square Cover WR-90 UG-39/U Brass Copper Silver

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

· Notes, Plotted Data

SMW90SF005-36 DATA SHEET



Features:

- WR-90 waveguide
- · Flexes in both the E and H plane
- 8.2 GHz to 12.4 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

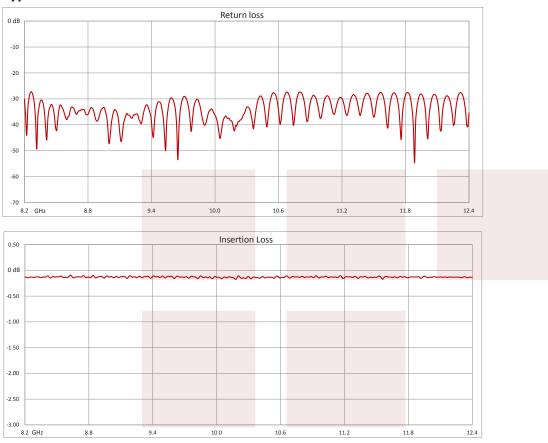
Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689

www.fairviewmicrowave.com sales@fairviewmicrowave.com





Typical Performance Data



WR-90 Seamless Flexible Waveguide in 36 Inch Using UG-39/U Square Cover Flange With a 8.2 GHz to 12.4 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: WR-90 Seamless Flexible Waveguide in 36 Inch Using UG-39/U Square Cover Flange With a 8.2 GHz to 12.4 GHz Frequency Range SMW90SF005-36

URL: https://www.fairviewmicrowave.com/wr-90-seamless-flexible-waveguide-ug39-square-8.2-12.4-ghz-smw90sf005-36-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.





