

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

The SMW90TF005-36 is one of Fairview Microwave's flexible, twistable sections which operates in the 8.2 to 12.4 GHz range. It can be twisted and/or bent in both the E and H planes without impairing VSWR or attenuation because of its silver coated helically wound brass body construction. The twistable section is covered in a neoprene jacket which allows the section to be pressurized as well as protecting the waveguide's integrity.

Electrical Specifications

Description	Min	Тур	Мах	Units
Frequency Range	8.2		12.4	GHz
VSWR		1.1:1		
Insertion Loss		0.45		dB

Mechanical Specifications

Waveguide Size	
Waveguide Design	
Section Length	
E-Plane Minimum Bend Radius, One Time	
E-Plane Minimum Bend Radius, Repeated	
H-Plane Minimum Bend Radius, One Time	
H-Plane Minimum Bend Radius, Repeated	
Maximum Offset Rotation, One Time	
Maximum Offset Rotation, Repeated	
Maximum Operating Pressure	

WR-90 Twistable 36 in [914.4 mm] 2.5 in [63.5 mm] 10 in [254 mm] 5 in [127 mm] 20 in [508 mm] 96 degrees/ft 24 degrees/ft 45 psig

Description	Flange 1	Waveguide	Flange 2
Туре	Square Cover	WR-90	Square Cover
Designation	UG-39/U		UG-39/U
Material	Brass	Brass	Brass
Plating		Silver	
Color	Gold	Black	Gold

Compliance Certifications (visit www.FairviewMicrowave.com for current

document)

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RoHS Compliant	Yes
REACH Compliant	12/17/2015

Plotted and Other Data

Notes:

• Notes, Plotted Data



SMW90TF005-36

DATA SHEET

Features:

- Twistable/Flexible in both the E and H plane
- Neoprene Jacket allows
 pressurization
- 8.2 GHz to 12.4 GHz Range
- Brass flanges with a silver plated brass body

Applications:

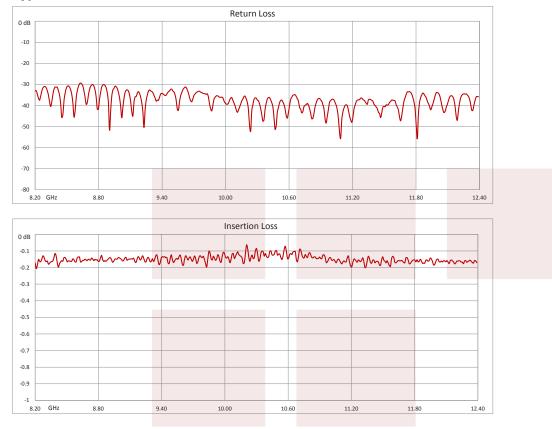
- Test Benches
- Microwave Radio
- Pressurized waveguide systems
- Provides vibration isolation
- Easily connects misaligned sections.
- Relieves mechanical stresses caused by thermal expansion/contraction.

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Typical Performance Data



WR-90 Twistable Flexible Waveguide 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 Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: WR-90 Twistable Flexible Waveguide Using UG-39/U Square Cover Flange With a 8.2 GHz to 12.4 GHz Frequency Range SMW90TF005-36

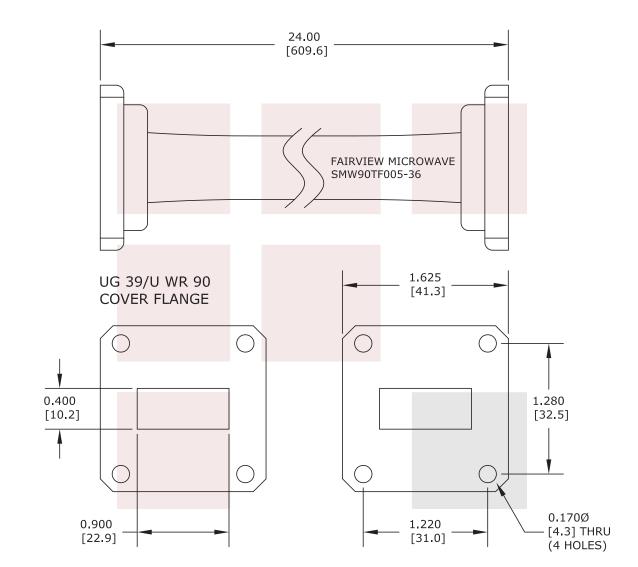
URL: https://www.fairviewmicrowave.com/wr-90-twistable-flexible-waveguide-ug39-square-8.2-12.4-ghz-smw90tf005-36-p.aspx

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FAIRVIEW MICROWAVE INC.	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].					
WR-90 Twistable Flexible Waveguide Using UG-39/U Square Cover Flange With a 8.2 GHz to 12.4 GHz Frequency Range	DWG NO SMW90TF005-36			CAGE CODE 3FKR5		
	CAD FILE 1005	15 SHEET	SCAL	E N/A	SIZE A	2233

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