

WR-137 Twistable Flexible Waveguide Using UG-344/U Round Cover Flange With a 5.85 GHz to 8.2 GHz Frequency Range

The SMW137TF005-24 is one of Fairview Microwave's flexible, twistable sections which operates in the 5.85 to 8.2 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	Typ	Max	Units
Frequency Range	5.85		8.2	GHz
VSWR		1.05:1		
Insertion Loss		0.14		dB

Mechanical Specifications

Waveguide Size	WR-137
Waveguide Design	Twistable
Section Length	24 in [609.6 mm]
E-Plane Minimum Bend Radius, One Time	4 in [101.6 mm]
E-Plane Minimum Bend Radius, Repeated	16 in [406.4 mm]
H-Plane Minimum Bend Radius, One Time	8 in [203.2 mm]
H-Plane Minimum Bend Radius, Repeated	32 in [812.8 mm]
Maximum Offset Rotation, One Time	64 degrees/ft
Maximum Offset Rotation, Repeated	16 degrees/ft
Maximum Operating Pressure	30 psig

Description	Flange 1	Waveguide	Flange 2
Type	Round Cover	WR-137	Round Cover
Designation	UG-344/U		UG-344/U
Material	Brass	Brass	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:

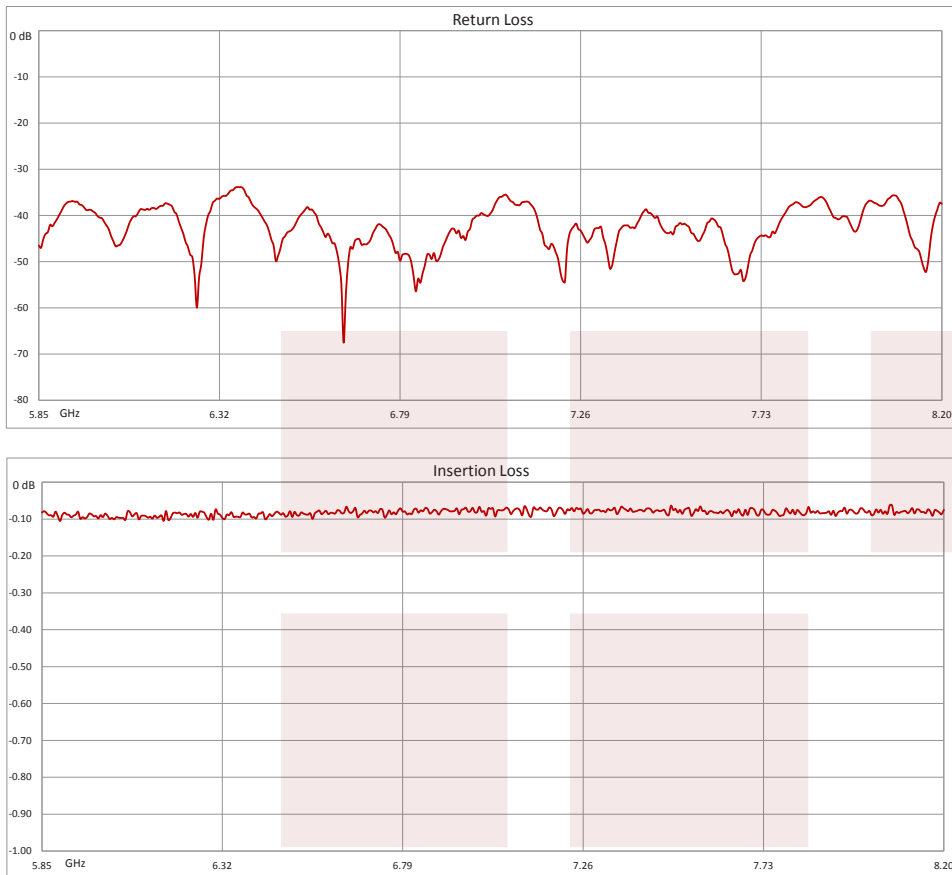
- Twistable/Flexible in both the E and H plane
- Neoprene Jacket allows pressurization
- 5.85 GHz to 8.2 GHz Range
- Brass flanges with a silver plated brass body

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

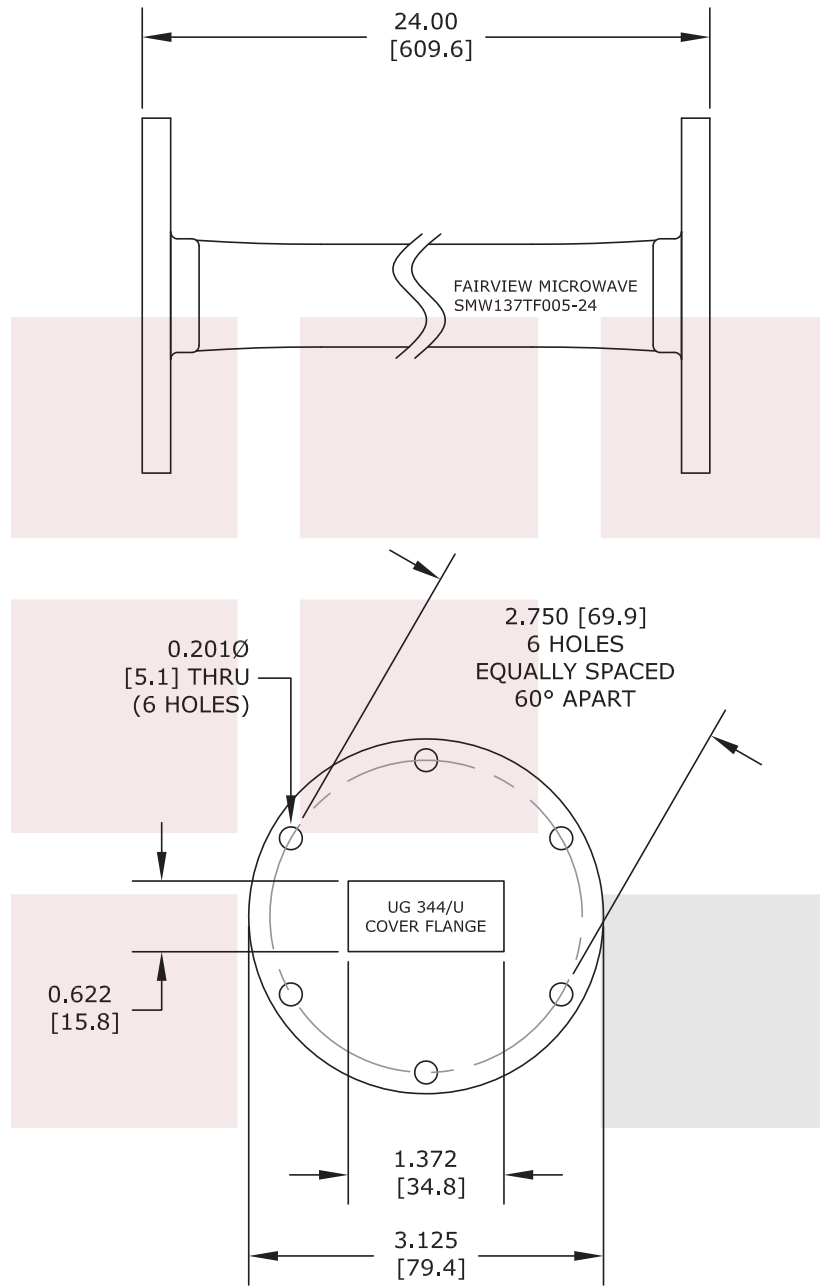


WR-137 Twistable Flexible Waveguide Using UG-344/U Round Cover Flange With a 5.85 GHz to 8.2 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-137 Twistable Flexible Waveguide Using UG-344/U Round Cover Flange With a 5.85 GHz to 8.2 GHz Frequency Range SMW137TF005-24](https://www.fairviewmicrowave.com/wr-137-twistable-flexible-waveguide-ug344-round-5.85-8.2-ghz-smw137tf005-24)

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FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		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].			
TITLE WR-137 Twistable Flexible Waveguide Using UG-344/U Round Cover Flange With a 5.85 GHz to 8.2 GHz Frequency Range		DWG NO SMW137TF005-24		CAGE CODE 3FKR5	
CAD FILE	100515	SHEET	SCALE	N/A	SIZE A 2233