

WR-137 Twistable Flexible Waveguide Using CPR-137G Flange With a 5.85 GHz to 8.2 GHz Frequency Range

The SMW137TF006-36 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		0.21		dB

Mechanical Specifications

Waveguide Size	WR-137
Waveguide Design	Twistable
Section Length	36 in [914.4 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	CPR-137G	WR-137	CPR-137G
Designation	None		None
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:

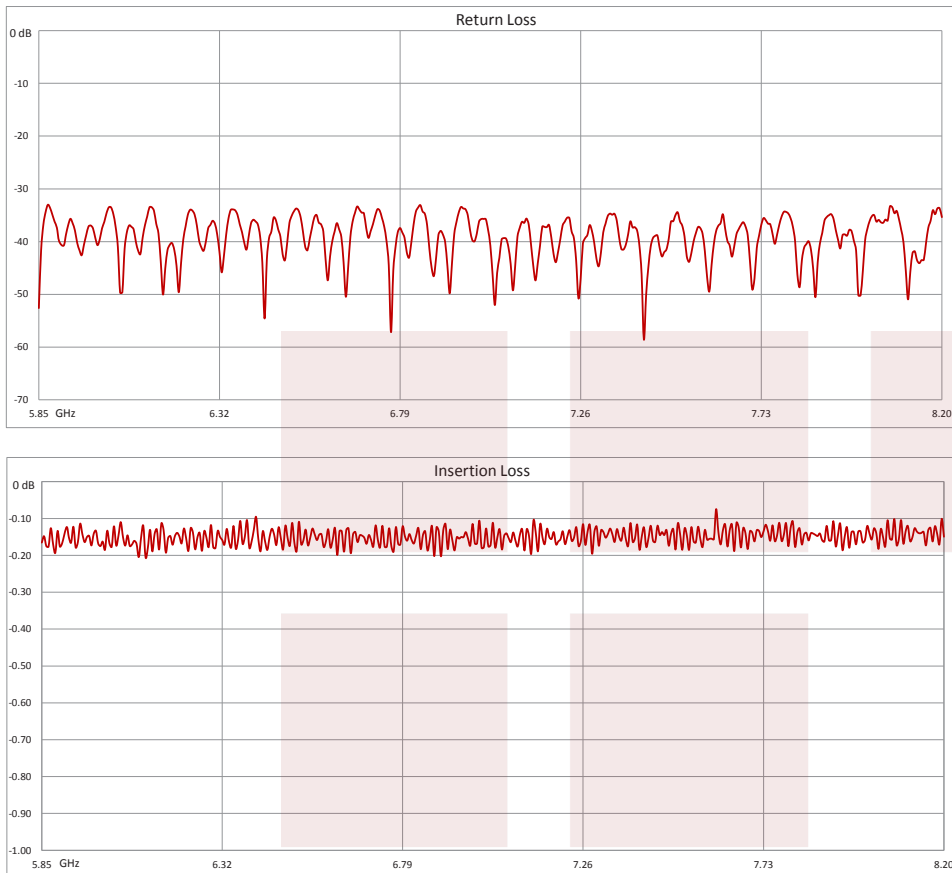
- Twistable/Flexible in both the E and H plane
- Neoprene Jacket allows pressurization
- 5.85 GHz to 8.2 GHz Range
- Brass flanges with a silver plated brass body

Applications:

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

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Typical Performance Data

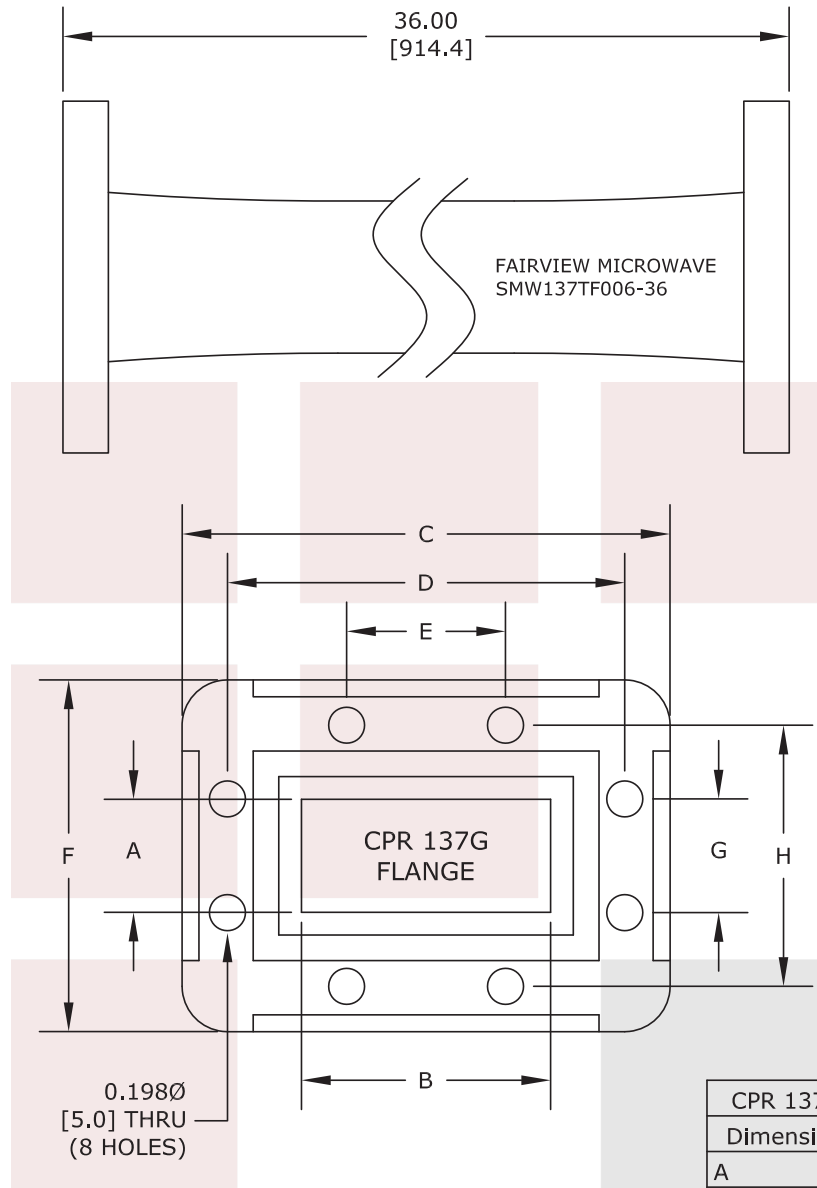


WR-137 Twistable Flexible Waveguide Using CPR-137G Flange With a 5.85 GHz to 8.2 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave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

For additional information on this product, please click the following link: [WR-137 Twistable Flexible Waveguide Using CPR-137G Flange With a 5.85 GHz to 8.2 GHz Frequency Range SMW137TF006-36](#)

URL: <https://www.fairviewmicrowave.com/wr-137-twistable-flexible-waveguide-cpr-137g-5.85-8.2-ghz-smw137tf006-36-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.



CPR 137G		
Dimension	Inches	mm
A	0.622	15.80
B	1.372	34.85
C	2.687	68.25
D	2.188	55.58
E	0.875	22.23
F	1.937	49.20
G	0.626	15.90
H	1.438	36.53

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 CPR-137G Flange With a 5.85 GHz to 8.2 GHz Frequency Range	DWG NO SMW137TF006-36	CAGE CODE 3FKR5			
CAD FILE 100515	SHEET	SCALE N/A	SIZE A	2233	