

**WR-34 Twistable Flexible Waveguide Using UG-1530/U Square Cover Flange With a 22 GHz to 33 GHz Frequency Range**

The SMW34TF005-36 is one of Fairview Microwave's flexible, twistable sections which operates in the 22 to 33 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	22		33	GHz
VSWR		1.22:1		
Insertion Loss		1.5		dB

**Mechanical Specifications**

Waveguide Size	WR-34
Waveguide Design	Twistable
Section Length	36 in [914.4 mm]
E-Plane Minimum Bend Radius, One Time	1.5 in [38.1 mm]
E-Plane Minimum Bend Radius, Repeated	6 in [152.4 mm]
H-Plane Minimum Bend Radius, One Time	3 in [76.2 mm]
H-Plane Minimum Bend Radius, Repeated	12 in [304.8 mm]
Maximum Offset Rotation, One Time	155 degrees/ft
Maximum Offset Rotation, Repeated	45 degrees/ft
Maximum Operating Pressure	45 psig

Description	Flange 1	Waveguide	Flange 2
Type	Square Cover	WR-34	Square Cover
Designation	UG-1530/U		UG-1530/U
Material	Brass	Brass	Brass
Plating		Silver	
Color	Gold	Black	Gold

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant	Yes
REACH Compliant	12/17/2015

**Plotted and Other Data**

- Notes:
- Notes, Plotted Data



**Features:**

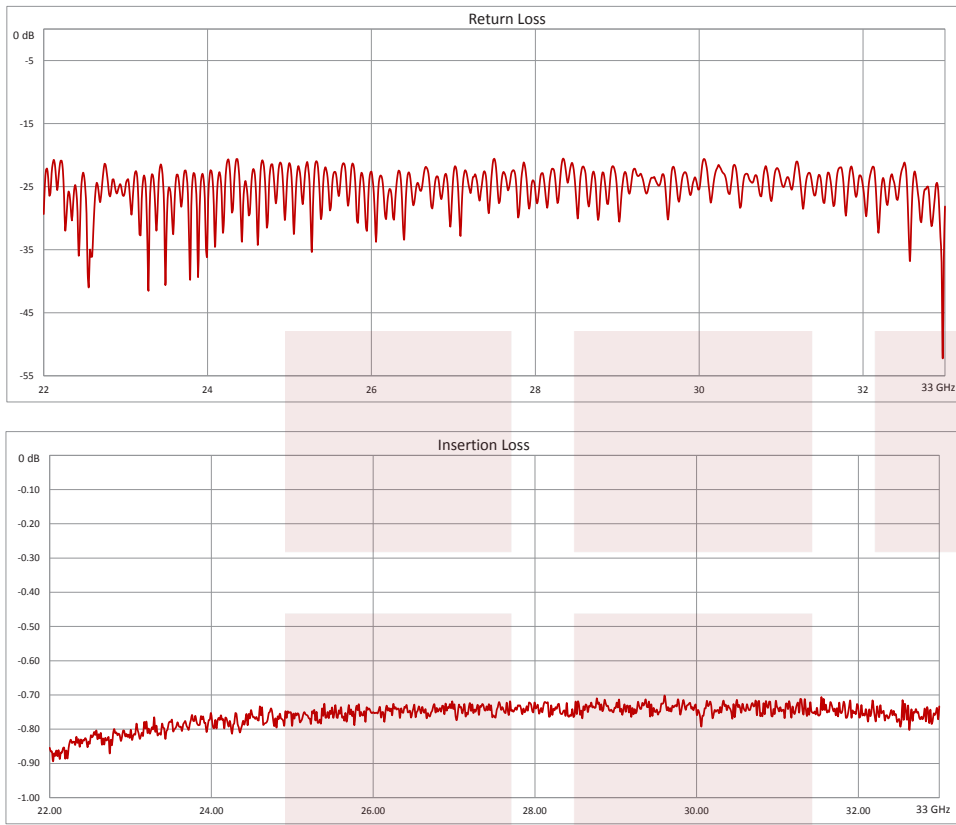
- Twistable/Flexible in both the E and H plane
- Neoprene Jacket allows pressurization
- 22 GHz to 33 GHz Range
- Brass flanges with a silver plated brass body

**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**

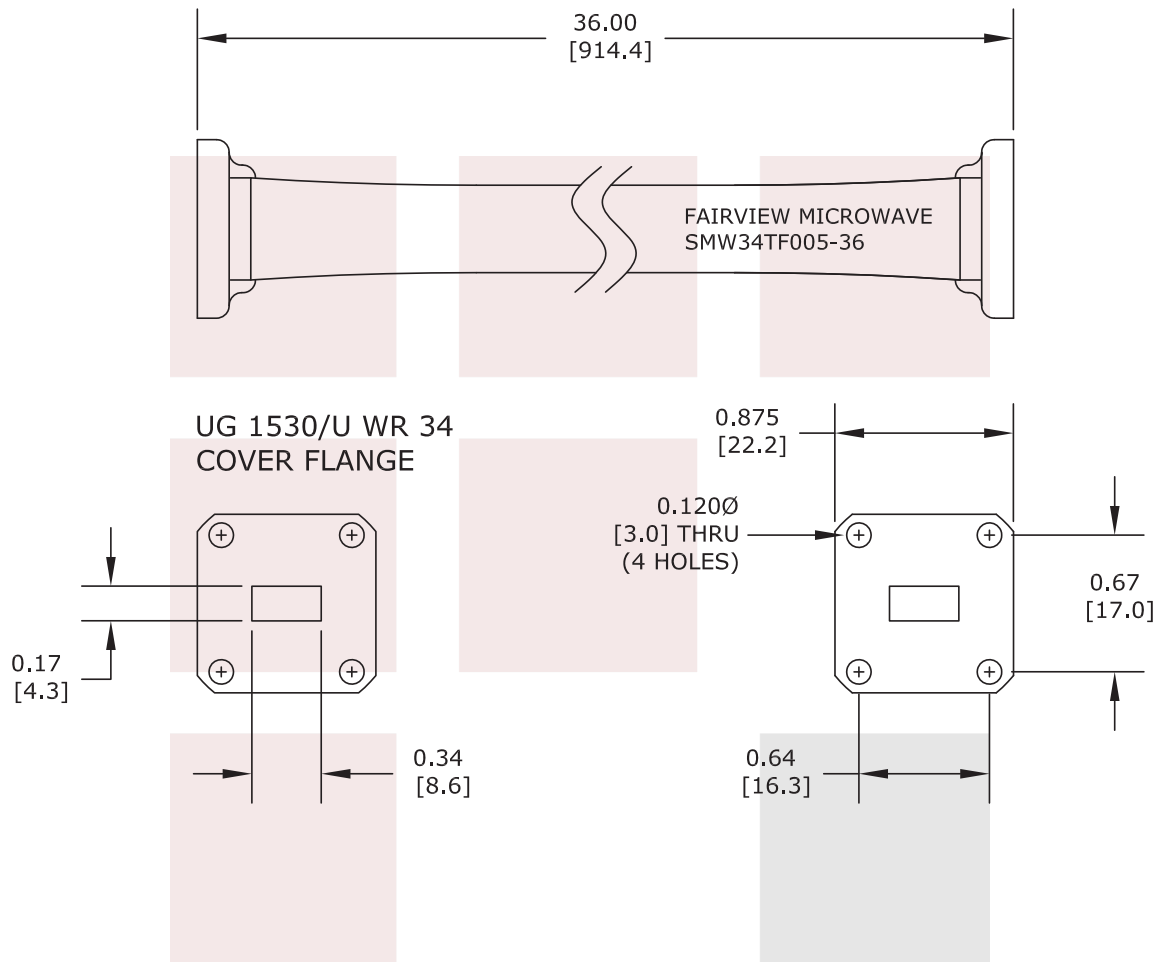


WR-34 Twistable Flexible Waveguide Using UG-1530/U Square Cover Flange With a 22 GHz to 33 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-34 Twistable Flexible Waveguide Using UG-1530/U Square Cover Flange With a 22 GHz to 33 GHz Frequency Range SMW34TF005-36](https://www.fairviewmicrowave.com/wr-34-twistable-flexible-waveguide-ug1530-square-22-33-ghz-smw34tf005-36)

URL: <https://www.fairviewmicrowave.com/wr-34-twistable-flexible-waveguide-ug1530-square-22-33-ghz-smw34tf005-36-p.aspx>

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TITLE WR-34 Twistable Flexible Waveguide Using UG-1530/U Square Cover Flange With a 22 GHz to 33 GHz Frequency Range		DWG NO SMW34TF005-36		CAGE CODE 3FKR5	
CAD FILE	092815	SHEET	SCALE	N/A	SIZE A 2233