

WR-62 Twistable Flexible Waveguide in 36 Inch Using UG-419/U Square Cover Flange with a 12.4 GHz to 18 GHz Frequency Range

The SMW62TF005-36 is one of Fairview Microwave's flexible, twistable sections which operates in the 12.4 to 18 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	12.4		18	GHz
VSWR		1.1:1		
Insertion Loss		0.84		dB
Input Power			400	Watts
Peak Power			100	kWatts

Mechanical Specifications

Waveguide Size	WR-62
Waveguide Design	Twistable
Section Length	36 in [914.4 mm]
E-Plane Minimum Bend Radius, One Time	2 in [50.8 mm]
E-Plane Minimum Bend Radius, Repeated	8 in [203.2 mm]
H-Plane Minimum Bend Radius, One Time	4 in [101.6 mm]
H-Plane Minimum Bend Radius, Repeated	16 in [406.4 mm]
Maximum Offset Rotation, One Time	136 degrees/ft
Maximum Offset Rotation, Repeated	34 degrees/ft
Maximum Operating Pressure	45 psig

Description	Flange 1	Waveguide	Flange 2
Type	Square Cover	WR-62	Square Cover
Designation	UG-419/U		UG-419/U
Material	Brass	Brass	Brass
Plating		Silver	
Color	Gold	Black	Gold

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Notes, Plotted Data



Features:

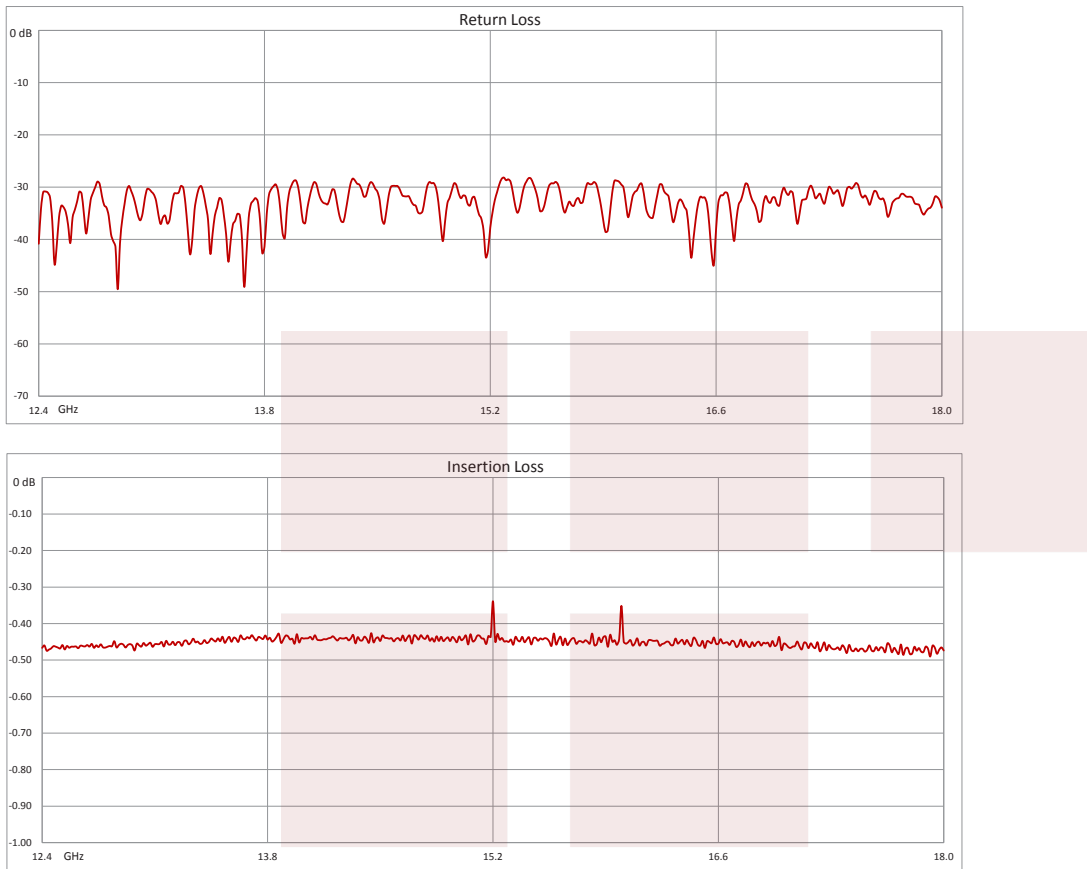
- Twistable/Flexible in both the E and H plane
- Neoprene Jacket allows pressurization
- 12.4 GHz to 18 GHz Range
- Brass flanges with a silver plated brass body

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



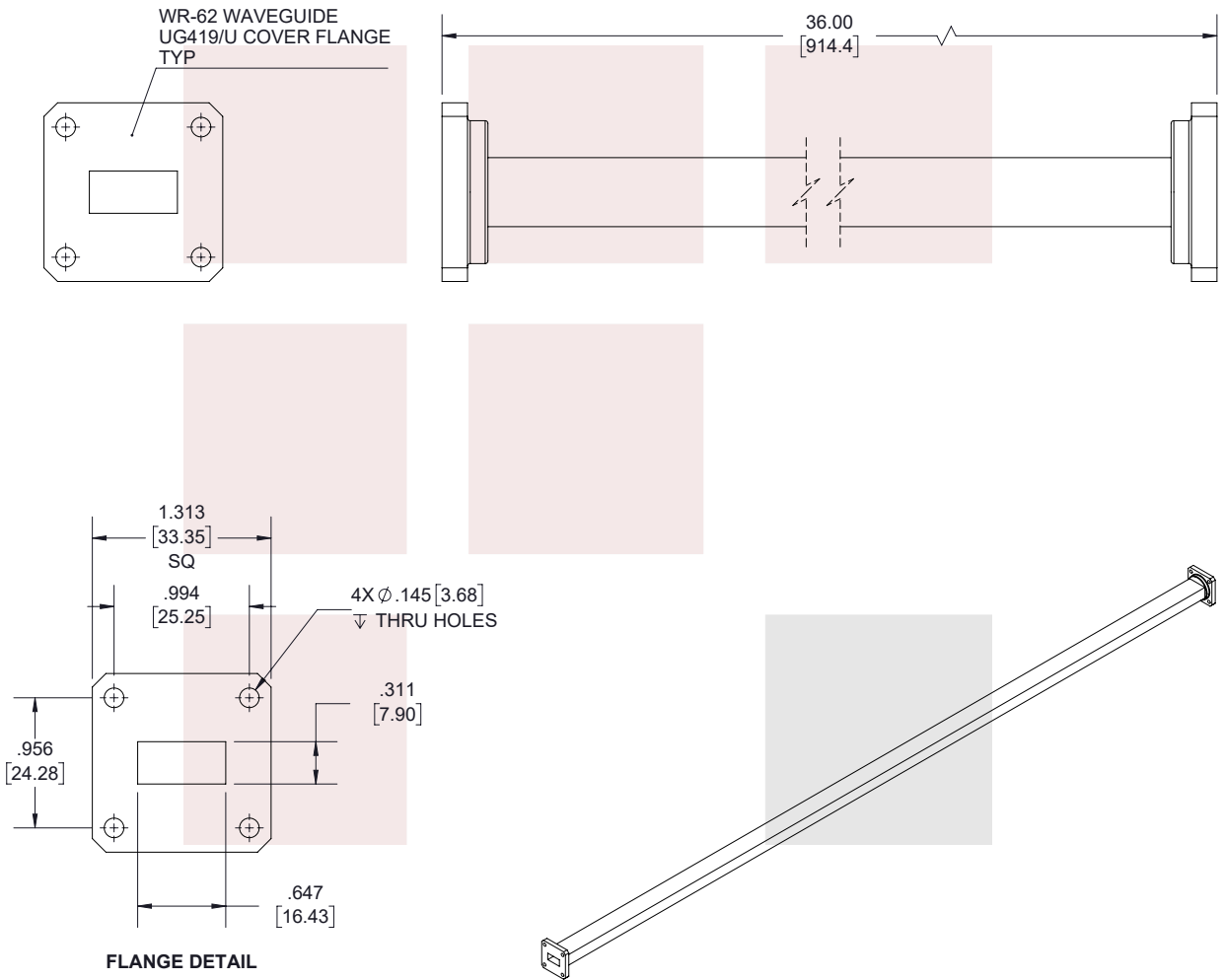
WR-62 Twistable Flexible Waveguide in 36 Inch Using UG-419/U Square Cover Flange with a 12.4 GHz to 18 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-62 Twistable Flexible Waveguide in 36 Inch Using UG-419/U Square Cover Flange with a 12.4 GHz to 18 GHz Frequency Range SMW62TF005-36](#)

URL: <https://www.fairviewmicrowave.com/wr-62-twistable-flexible-waveguide-ug419-square-12.4-18-ghz-smw62tf005-36-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PCR SMW62TF005-XX 20191125	12/03/19	S.PONG



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TITLE
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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
.X = ±.2 [5.08]	FRACTIONS ± 1/32	L ≤ 12 [305] = +1 [25] / -0	
.XX = ±.02 [.51]	ANGLES ± 1°	12 [305] < L ≤ 60 [1524] = +2 [51] / -0	
.XXX = ±.005 [.13]		60 [1524] < L ≤ 120 [3048] = +4 [102] / -0	
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0	
		300 [7620] < L = +5%L / -0	

THIRD-ANGLE PROJECTION
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ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.					SCALE	N/A
SIZE	CAGE CODE	DRAWN BY	PART NUMBER	REV		
A	3FKR5	K.DANG	SMW62TF005-36	A		

T-Rev.D