Fairview Microwave an INFINITe brand

WR-62 Twistable Flexible Waveguide in 12 Inch Using UG-419/U Square Cover Flange with a 12.4 GHz to 18 GHz Frequency Range

The SMW62TF005-12 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	Тур	Мах	Units
Frequency Range	12.4		18	GHz
VSWR		1.1:1		
Insertion Loss		0.28		dB
Input Power			400	Watts
Peak Power			100	kWatts

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-62 Twistable 12 in [304.8 mm] 2 in [50.8 mm] 8 in [203.2 mm] 4 in [101.6 mm] 16 in [406.4 mm] 136 degrees/ft 34 degrees/ft 45 psig

Description	Flange 1	Waveguide	Flange 2
Туре	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



SMW62TF005-12

DATA SHEET

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:

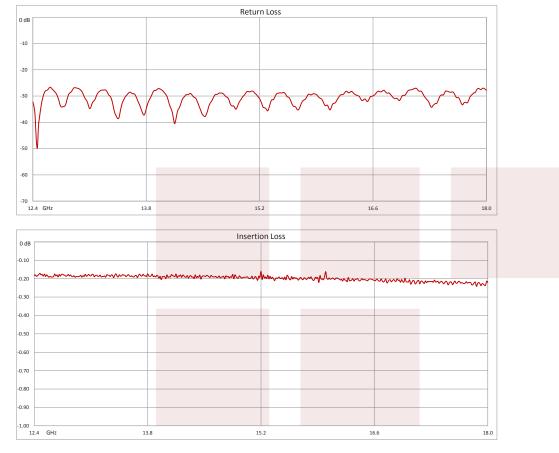
- Test Benches
- Microwave Radio
- Pressurized waveguide systems
- Provides vibration isolation Easily connects misaligned sections.
- Relieves mechanical stresses caused by thermal expansion/contraction.

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Typical Performance Data



WR-62 Twistable Flexible Waveguide in 12 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 12 Inch Using UG-419/U Square Cover Flange with a 12.4 GHz to 18 GHz Frequency Range SMW62TF005-12

URL: https://www.fairviewmicrowave.com/wr-62-twistable-flexible-waveguide-ug419-square-12.4-18-ghz-smw62tf005-12-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.

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

Fairview Microwave

an INFINIT<sup>
G</sup> brand



REVISIONS REV. DESCRIPTION DATE APPROVED А PCR SMW62TF005-XX 20191125 12/03/19 S.PONG WR-62 WAVEGUIDE 12.00 UG419/U COVER FLANGE 304.8 TYP \oplus \oplus \oplus \oplus 1.313 33.35 SQ .994 4XØ.145[3.68] 25.25 THRU HOLES .311 Ð \oplus 7.90 .956 24.28 \oplus \oplus .647 [16.43] FLANGE DETAIL THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED. UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS Fairview Microwave THIRD-ANGLE PROJECTIO $\oplus \ominus$ TOLERANCES: CABLE LENGTH (L) TOLERANCES THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION an INFINIT[®] brand L ≤ 12 [305] = +1 [25] / -0 .X = ±.2 [5.08] FRACTIONS .XX = ±.02 [.51] ± 1/32 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0 TITLE ALL RIGHTS RESERVED. .XXX = ±.005 [.13] ANGLES ± 1° SHEET OF WR-62 Twistable Flexible Waveguide in 12 Inch Using 1 1 UG-419/U Square Cover Flange with a 12.4 GHz to 18 SCALE ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. N/A GHz Frequency Range SIZE CAGE COD DRAWN B PART NUMBE REV 3FKR5 SMW62TF005-12 А K.DANG А

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

T-Rev.D