

WR-15 Waveguide H-Bend Instrumentation Grade Using UG-385/U Flange With a 50 GHz to 75 GHz Frequency Range

Fairview Microwave carries a wide variety of waveguide bends ranging from WR-12 to WR-137. These waveguide bends include grooved and non-grooved designs. Standard waveguide bends are available in E-Bend and H-Bend configurations. For ease of identification, our commercial grade waveguide bends are painted grey while our instrumentation grade waveguide bends are gold plated. Our instrumentation grade waveguide bends were designed with precision tolerances of ± 0.001 " and constructed of a high grade oxygen free hard copper to ensure repeatable RF performance.

Electrical Specifications*

Description	Min	Typ	Max	Units
Frequency Range	50		75	GHz
VSWR		1.12:1		
Insertion Loss		3	3	dB

* Values at 25°C, sea level

Mechanical Specifications

Waveguide Size	WR-15
Flange 1	
Flange Type	Round Cover
Flange Designation	UG-385/U
Material	Oxygen Free Hard Copper
Plating	Gold
Waveguide	
Interface	WR-15
Material	Oxygen Free Hard Copper
Plating	Gold
Flange 2	
Flange Type	Round Cover
Flange Designation	UG-385/U
Material	Oxygen Free Hard Copper
Plating	Gold
Size	
Weight	0.07 lbs [31.75 g]

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

Plotted and Other Data

Notes:

- Values at 25 °C, sea level



Features:

- Commercial grade and instrumentation grade sections and bends covering frequency ranges from 5.8 GHz to 90 GHz
- Wide variety of flange types, including grooved and non-grooved designs.
- Precision waveguide mechanical tolerances of ± 0.001 "
- Comprehensive waveguide offering also includes Bends, Filters, Terminations, and Waveguide to Coaxial Adapters.

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WR-15 Waveguide H-Bend Instrumentation Grade Using UG-385/U Flange With a 50 GHz to 75 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

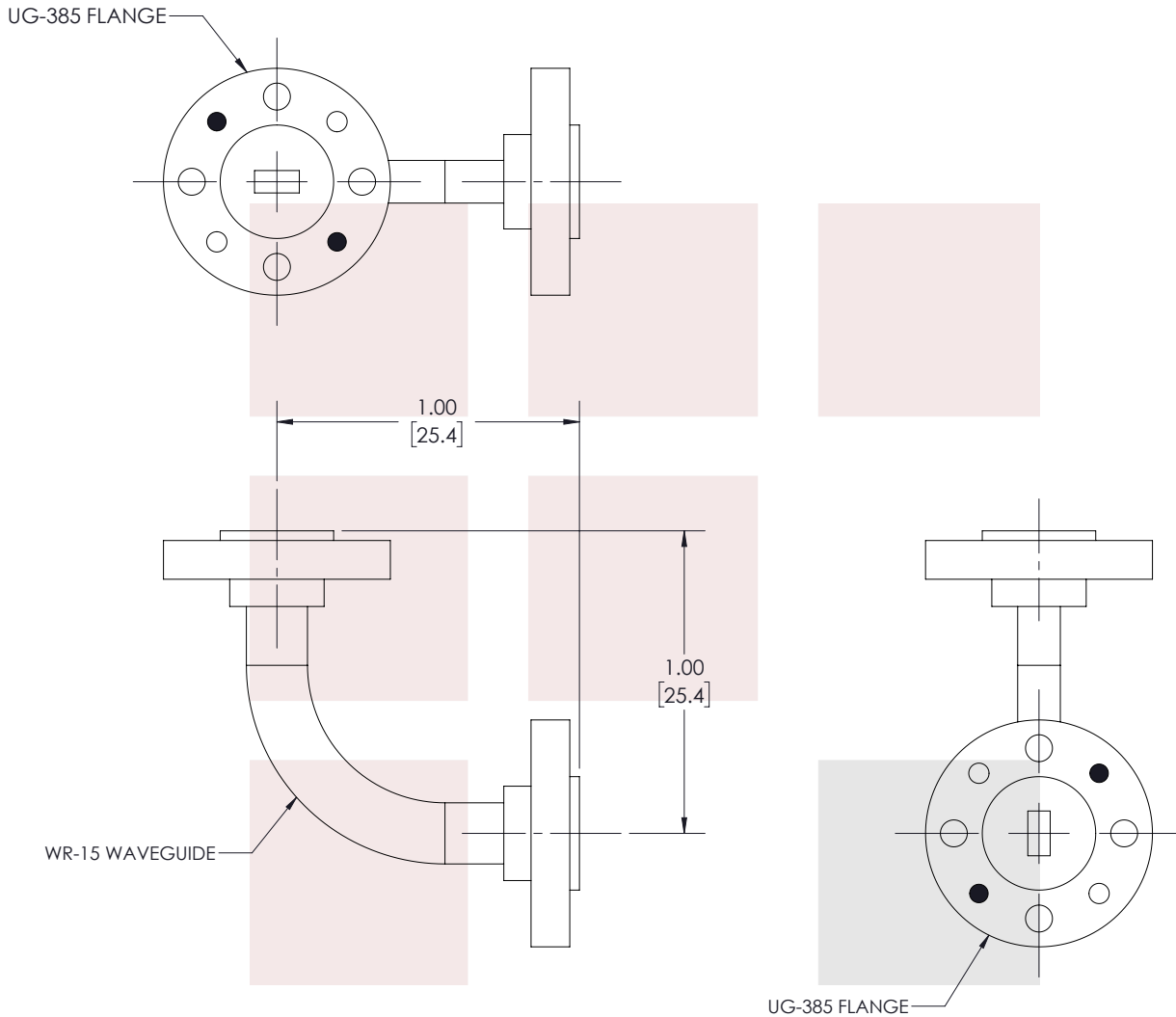
For additional information on this product, please click the following link: [WR-15 Waveguide H-Bend Instrumentation Grade Using UG-385/U Flange With a 50 GHz to 75 GHz Frequency Range SMF-15HB-001A](#)

URL: <https://www.fairviewmicrowave.com/wr-15-waveguide-h-bend-ug-385-u-flange-50-75-ghz-smf-15hb-001a-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03/30/2022	SPONG



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TITLE

WR-15 Waveguide H-Bend Instrumentation Grade
Using UG-385/U Flange With a 50 GHz to 75 GHz
Frequency Range

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

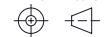
TOLERANCES:

.X = ±.2 [.508] FRACTIONS ± 1/32
.XX = ±.02 [.51] ANGLES ± 1°
.XXX = ±.005 [.13]

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
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

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY VTHANGARAJ	ITEM NO. SMF-15HB-001A	REV A
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