

## WR-62 Waveguide H-Bend Instrumentation Grade Using UG-419/U Flange With a 12.4 GHz to 18 GHz Frequency Range

SMF-62HB-001A is a WR-62 waveguide bend that is a H-Plane Bend type with a UG-419/U Square Cover flange. This WR-62 H-Bend waveguide with UG-419/U flange from Fairview Microwave is Instrumentation grade. Our WR-62 Instrumentation grade waveguide bend has a minimum frequency of 12.4 GHz and a maximum frequency of 18 GHz. WR-62 waveguide bend SMF-62HB-001A is part of over 40,000 RF, microwave and millimeter wave components available from Fairview Microwave. This Instrumentation grade WR-62 H-Bend waveguide with UG-419/U flange can ship worldwide the same day as it is purchased as with our other available RF parts.



### Features:

- WR-62 Waveguide H-Plane Bend
- UG-419/U Square Cover Flange
- 12.4GHz to 18 GHz Frequency Range
- Comprehensive waveguide offerings also includes Waveguide Sections, Waveguide to Coax Adapters, Filters, Terminations, and more

### Electrical Specifications\*

| Description     | Min  | Typ    | Max | Units |
|-----------------|------|--------|-----|-------|
| Frequency Range | 12.4 |        | 18  | GHz   |
| VSWR            |      | 1.06:1 |     |       |
| Insertion Loss  |      | 0.7    |     | dB    |

\* Values at 25°C, sea level

### Mechanical Specifications

|                    |                         |
|--------------------|-------------------------|
| Waveguide Size     | WR-62                   |
| Waveguide Design   | Instrumentation Grade   |
| <b>Flange 1</b>    |                         |
| Flange Type        | Square Cover            |
| Flange Designation | UG-419/U                |
| Material           | Brass                   |
| Plating            | Gold                    |
| <b>Waveguide</b>   |                         |
| Interface          | WR-62                   |
| Material           | Oxygen Free Hard Copper |
| Plating            | Gold                    |
| <b>Flange 2</b>    |                         |
| Flange Type        | Square Cover            |
| Flange Designation | UG-419/U                |
| Material           | Brass                   |
| Plating            | Gold                    |
| <b>Temperature</b> |                         |
| Operating Range    | -40 to +75 deg C        |
| Storage Range      | -50 to +85 deg C        |
| <b>Size</b>        |                         |
| Weight             | 0.328 lbs [148.78 g]    |

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

### Plotted and Other Data

Notes:

- Values at 25 °C, sea level

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WR-62 Waveguide H-Bend Instrumentation Grade Using UG-419/U 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

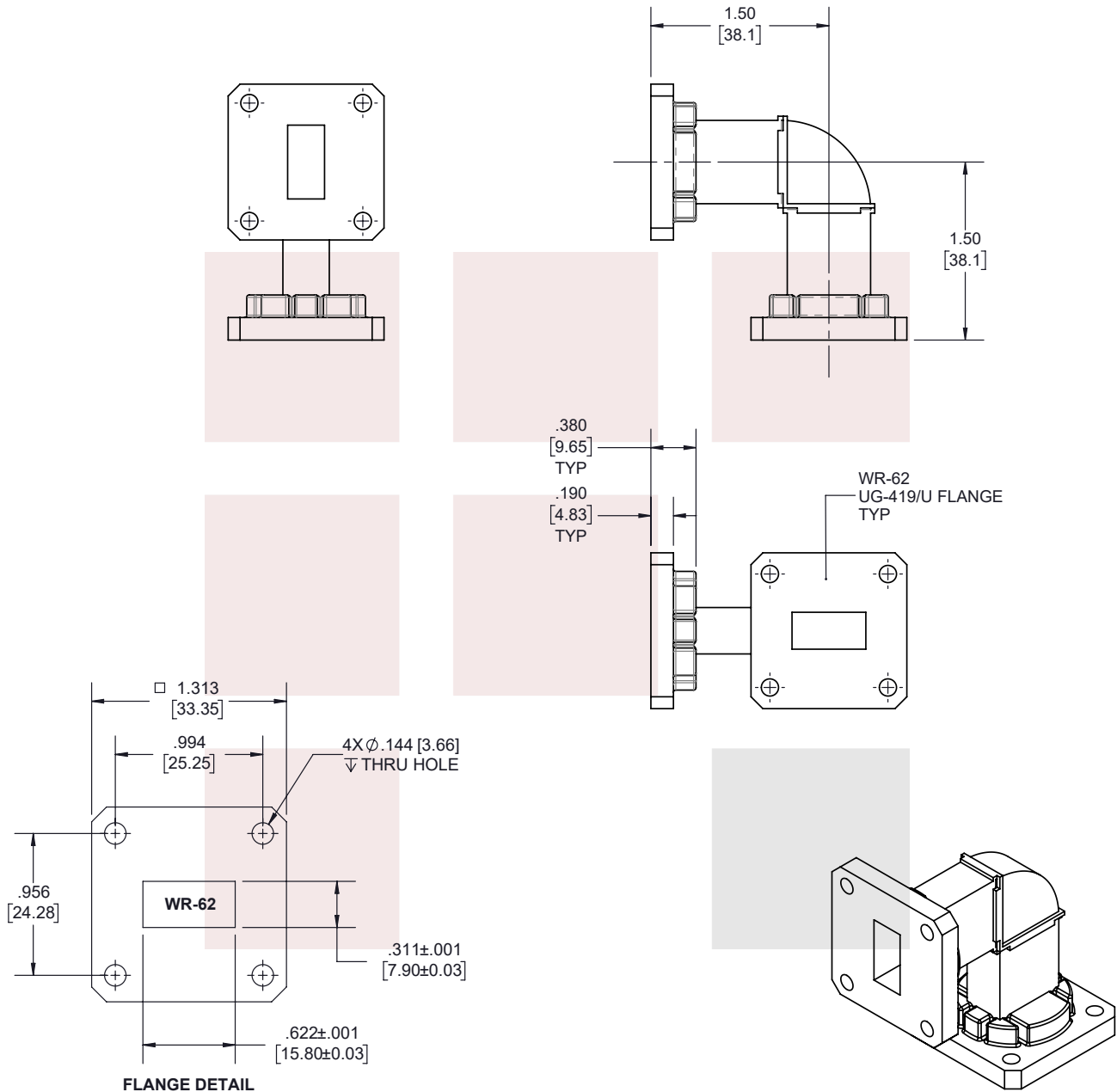
For additional information on this product, please click the following link: [WR-62 Waveguide H-Bend Instrumentation Grade Using UG-419/U Flange With a 12.4 GHz to 18 GHz Frequency Range SMF-62HB-001A](#)

URL: <https://www.fairviewmicrowave.com/wr-62-waveguide-h-bend-ug-419-u-flange-12.4-18-ghz-smf-62hb-001a-p.aspx>

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| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| A         | INITIAL RELEASE | 09/01/2022 | S. PONG  |



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TITLE  
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Frequency Range

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

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

|                    |             |   |
|--------------------|-------------|---|
| .X = ±.2 [5.08]    | FRACTIONS   | L ≤ 12 [305] = +1 [25] / -0                 |
| .XX = ±.02 [.51]   | ± 1/32      | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0     |
| .XXX = ±.005 [.13] | ANGLES ± 1° | 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<br>A | CAGE CODE<br>3FKR5 | DRAWN BY<br>K.DANG | ITEM NO.<br>SMF-62HB-001A | REV<br>A |
|-----------|--------------------|--------------------|---------------------------|----------|

T-Rev.D