

## WR-10 to WR-19 Waveguide Transition 1.5 Inch Length Using UG-387/U-Mod to UG-383/U-Mod Flange

The SMW10TS19001 is part of Fairview's family of Waveguide Transitions (also sometimes called waveguide adapters) used as a means of propagating RF/Microwave energy from one waveguide size to another. The SMW10TS19001 allows the waveguide to change from a WR-10 waveguide (using a UG-387/U-Mod flange) to a WR-19 waveguide (using a UG-383/U-Mod flange.) The waveguide body has a plated gold finish.

### Electrical Specifications

| Description    | Min | Typ | Max   | Units |
|----------------|-----|-----|-------|-------|
| VSWR           |     |     | 1.4:1 |       |
| Insertion Loss |     |     | 0.5   | dB    |

### Mechanical Specifications

|        |                   |
|--------|-------------------|
| Size   |                   |
| Length | 1.5 in [38.1 mm]  |
| Weight | 0.1 lbs [45.36 g] |

| Description   | Flange 1     | Waveguide      | Flange 2     |
|---------------|--------------|----------------|--------------|
| Interface     | UG-387/U-Mod | WR-10 to WR-19 | UG-383/U-Mod |
| Material      | Brass        | Brass          | Brass        |
| Plating       | Gold         | Gold           | Gold         |
| Plating Spec. | ASTMB488     | ASTMB488       | ASTMB488     |
| Finish        | Gold         | Gold           | 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:

- Typical VSWR/Return Loss data taken with load.
- Typical insertion loss data taken for two parts in series. The WR-19 flanges are connected together and the WR-10 flanges are connected to the test equipment.



### Features:

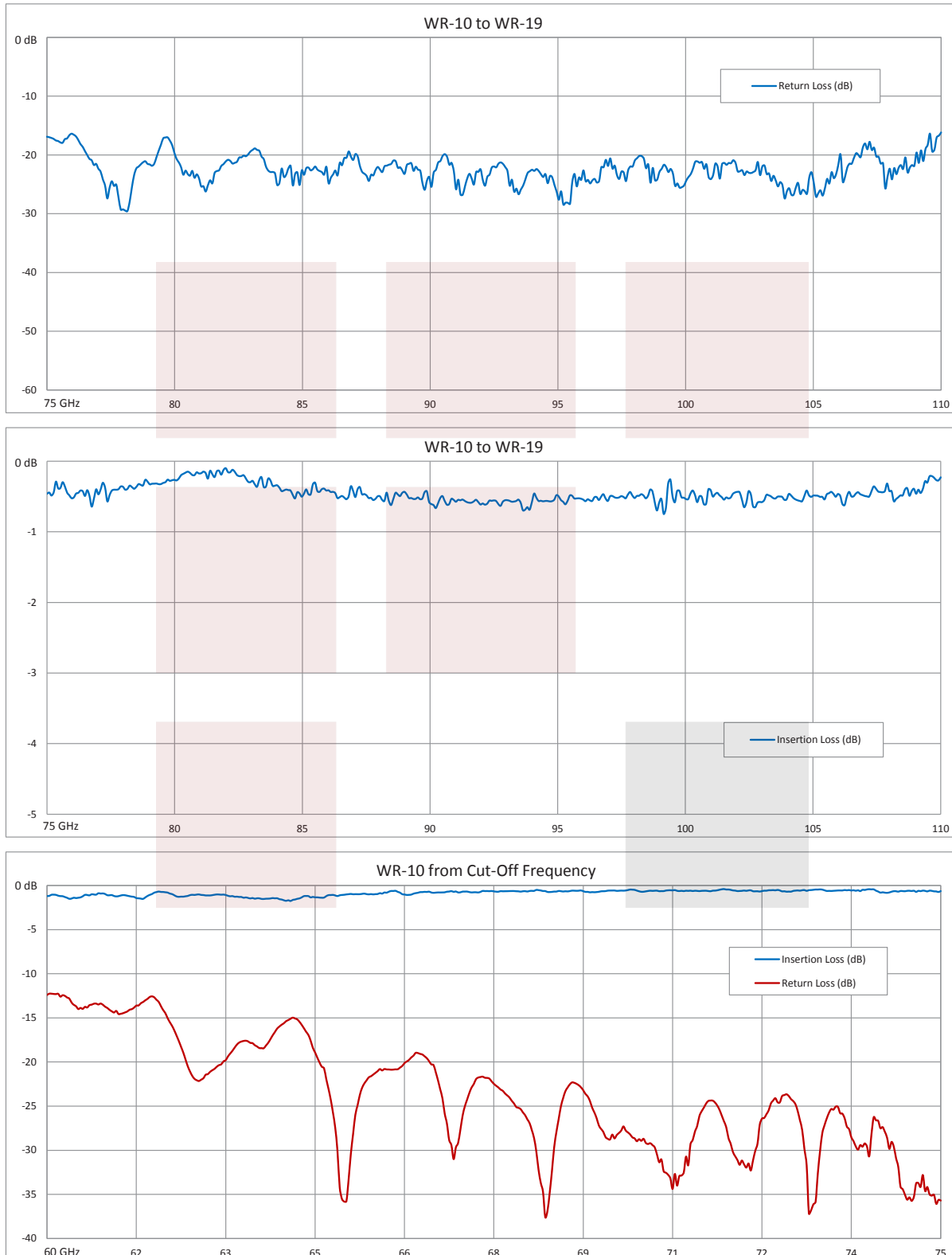
- WR-10 to WR-19 waveguide
- WR-10 waveguide UG-387/U-Mod flange
- WR-19 waveguide UG-383/U-Mod flange
- Gold plated finish
- Precision manufactured

### Applications:

- Radar Systems
- Military and Space
- Wireless Radio Systems
- Telecom Infrastructure
- Communication Systems
- R&D Labs
- Microwave Radio Systems

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**Typical Performance Data**



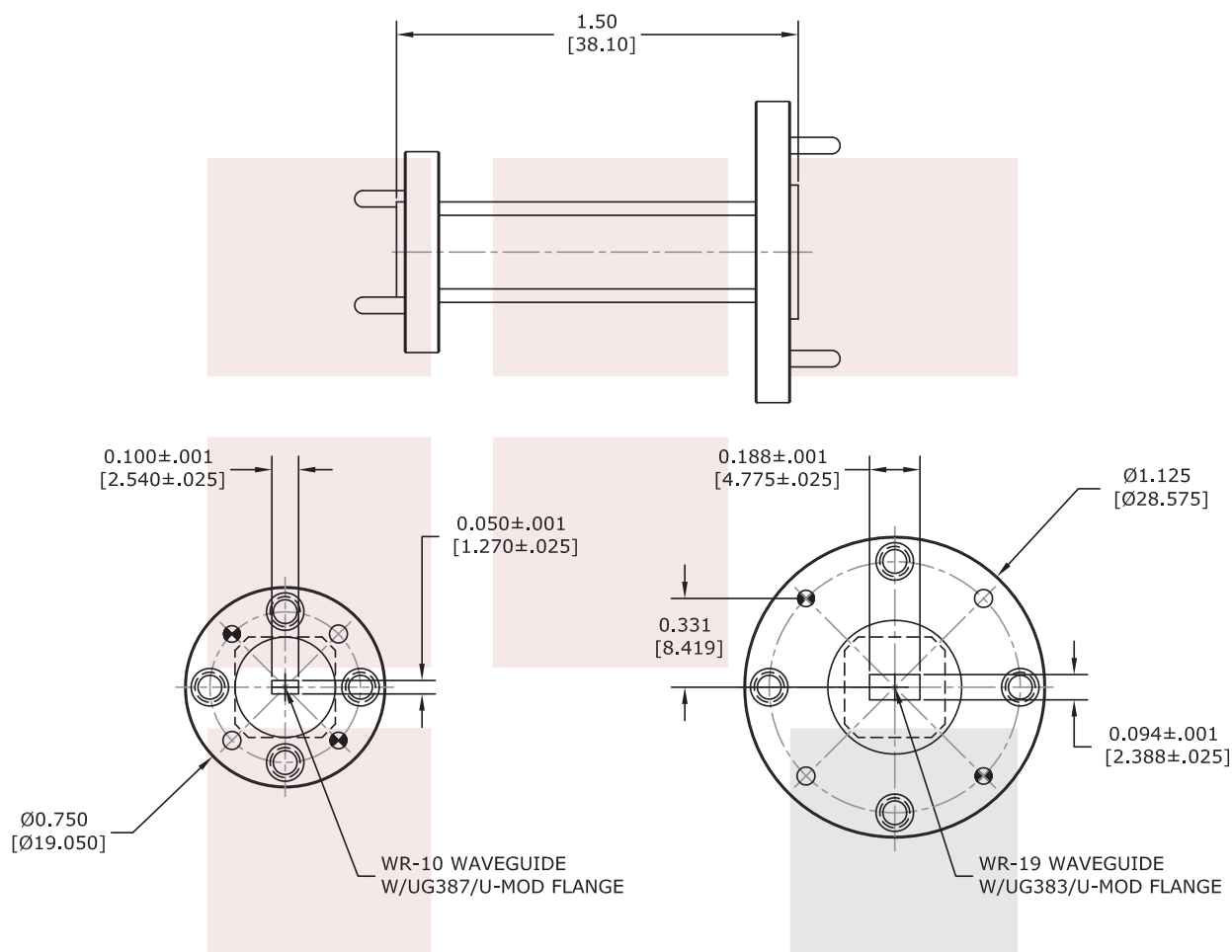
WR-10 to WR-19 Waveguide Transition 1.5 Inch Length Using UG-387/U-Mod to UG-383/U-Mod Flange from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-10 to WR-19 Waveguide Transition 1.5 Inch Length Using UG-387/U-Mod to UG-383/U-Mod Flange SMW10TS19001](#)

URL: <http://www.fairviewmicrowave.com/wr-10-wr-19-waveguide-transition-smw10ts19001-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.





UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN: inches [mm]  
TOLERANCES ARE:  
.XX  $\pm$  .10 [ $\pm$  2.54]  
.XXX  $\pm$  .005 [ $\pm$  .127]

\* THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

|  |  |  |  |              |   |           |                    |      |  |
|--|--|--|--|--------------|---|-----------|--------------------|------|--|
| <b>FAIRVIEW MICROWAVE INC.</b><br>ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM                            |  |  |  |              | NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. |           |                    |      |  |
| TITLE<br>WR-10 to WR-19 Waveguide Transition 1.5 Inch Length Using UG-387/U-Mod to UG-383/U-Mod Flange |  |  |  |              | DWG NO<br>SMW10TS19001  |           | CAGE CODE<br>3FKR5 |      |  |
| CAD FILE<br>000916   |  |  |  | SCALE<br>N/A |   | SIZE<br>A |                    | 2233 |  |