

Waveguide Transition With WR-112 UG-51/U Square Cover Flange to WR-90 UG-39/U Square Cover Flange in 3 Inch Length

The FMWTS1002 is part of Fairview Microwave'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 FMWTS1002 allows the waveguide to change from a WR-112 waveguide (using a UG-51/U flange) to a WR-90 waveguide (using a UG-39/U flange).



Electrical Specifications

| Description | Min | Typ | Max | Units |
|-------------|-----|--------|-----|-------|
| VSWR | | 1.08:1 | | |

Mechanical Specifications

| Size | |
|--------|-----------------------|
| Length | 3 in [76.2 mm] |
| Weight | 0.6995 lbs [317.29 g] |

| Description | Flange 1 | Waveguide | Flange 2 |
|-------------|--------------|-----------------|--------------|
| Designation | UG-51/U | WR-112 to WR-90 | UG-39/U |
| Flange Type | Square Cover | | Square Cover |
| Material | Brass | Brass | Brass |

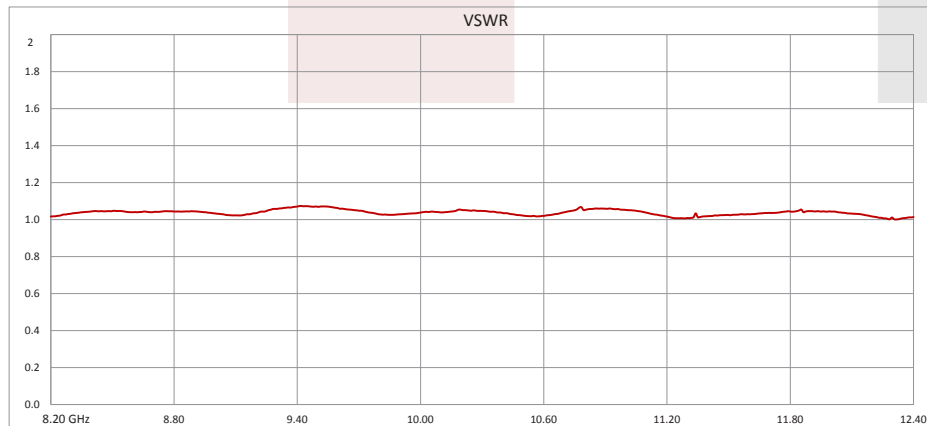
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Typical VSWR data taken with load

Typical Performance Data



Features:

- Transitions from WR-112 to WR-90 waveguide
- WR-112 waveguide UG-51/U flange
- WR-90 waveguide UG-39/U flange
- Painted finish

Applications:

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

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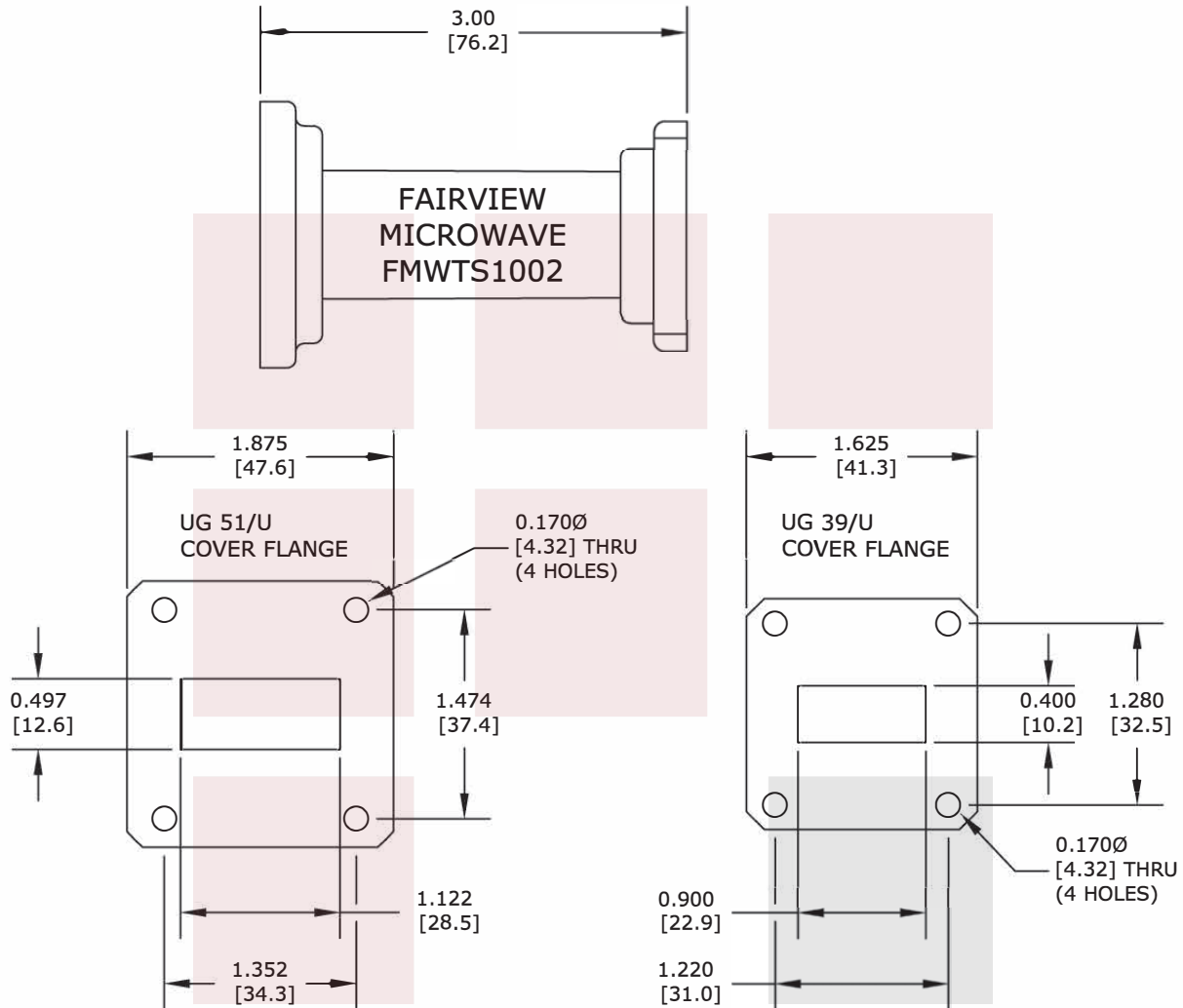
Waveguide Transition With WR-112 UG-51/U Square Cover Flange to WR-90 UG-39/U Square Cover Flange in 3 Inch Length from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Waveguide Transition With WR-112 UG-51/U Square Cover Flange to WR-90 UG-39/U Square Cover Flange in 3 Inch Length FMWTS1002](#)

URL: <https://www.fairviewmicrowave.com/waveguide-transition-wr112-ug51-square-wr90-ug39-square-fmwts1002-p.aspx>

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| STANDARD TOLERANCES | |
|---------------------|-------|
| .X | ±0.2 |
| .XX | ±0.1 |
| .XXX | ±0.05 |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

| | | | | |
|---|--------|---|-------|-----------|
| FAIRVIEW MICROWAVE INC. | | NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm]. | | |
| WWW.FAIRVIEWMICROWAVE.COM | | DWG NO | | CAGE CODE |
| TITLE Waveguide Transition With WR-112 UG-51/U Square Cover Flange to WR-90 UG-39/U Square Cover Flange in 3 Inch Length | | FMWTS1002 | | 3FKR5 |
| | | CAD FILE | SHEET | SCALE |
| | 010816 | | N/A | A |