

WR-102 UG-1493/U Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 7 GHz to 11 GHz

The FMWCA9805 is a waveguide to coaxial adapter operating in the X band with a 7 to 11 GHz frequency range. This adapter offers a WR-102 waveguide interface size coupled with a precision tolerance UG-1493/U square cover flange. The FMWCA9805 is constructed of aluminum to ensure durability and repeatable RF performance. The SMA female connector mates with commercially available 2.92mm and 3.5mm connectors. The package is REACH and RoHS compliant.

Configuration

| | |
|----------------|------------------------|
| Waveguide Size | WR-102 |
| Flange | UG-1493/U Square Cover |
| RF Connector | SMA Female |
| Impedance | 50 Ohms |
| Body Geometry | Right Angle |

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-----------------|-----|-----|--------|-------|
| Frequency Range | 7 | | 11 | GHz |
| VSWR | | | 1.25:1 | |

Mechanical Specifications

Size

| | |
|--------|--------------------|
| Length | 1.13 in [28.7 mm] |
| Width | 1.69 in [42.93 mm] |
| Height | 1.69 in [42.93 mm] |
| Weight | 0.15 lbs [68.04 g] |

RF Connector

| | |
|---------------------------|-----------------|
| Connector Type | SMA Female |
| Body Material and Plating | Stainless Steel |

Waveguide Interface

| | |
|---------------------------|--------------|
| Waveguide Type | WR-102 |
| Flange Type | Square Cover |
| Flange Designation | UG-1493/U |
| Body Material and Plating | Aluminum |

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

Plotted and Other Data

Notes:

- Values at +25 °C, sea level unless stated otherwise



Features:

- 7 to 11 GHz Frequency Range
- WR-102 Waveguide Interface
- Square Cover Flange
- SMA Female RF Interface
- Right Angle

Applications:

- Test Benches
- Radar
- Satellite
- Microwave Radio Systems
- Military and Space
- Communication Systems

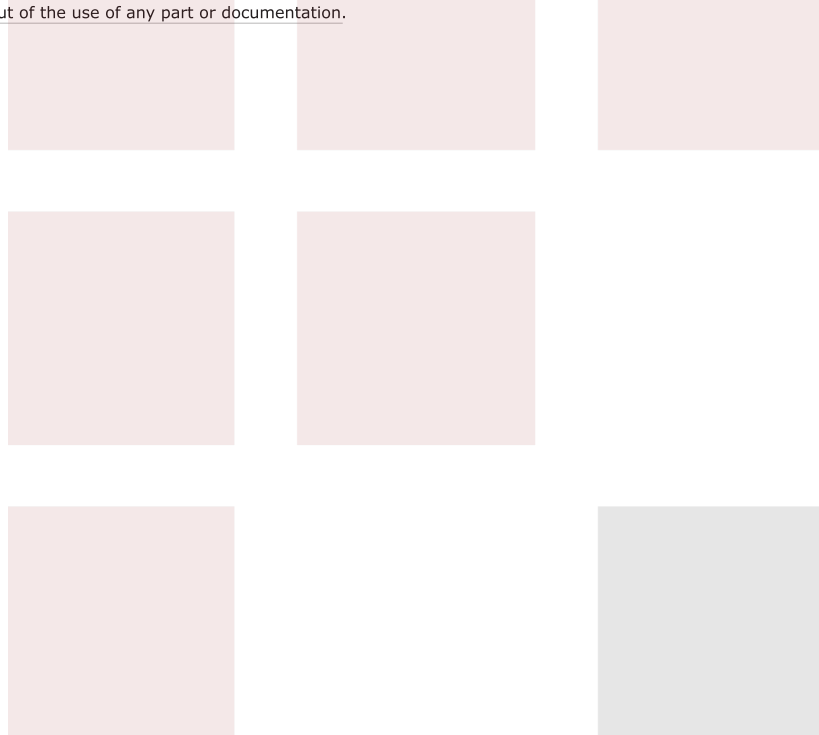
Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

WR-102 UG-1493/U Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 7 GHz to 11 GHz 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.

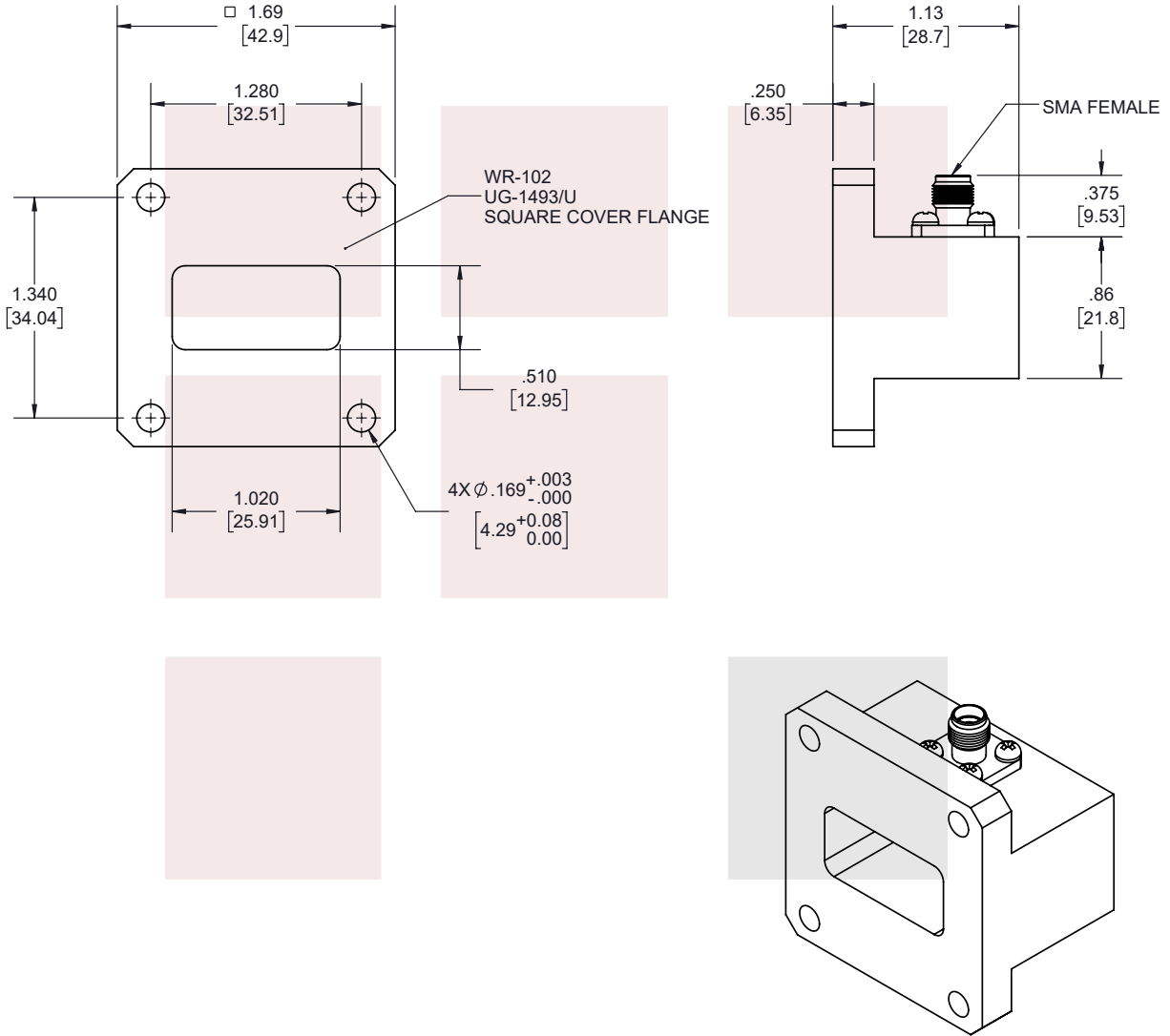
For additional information on this product, please click the following link: [WR-102 UG-1493/U Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 7 GHz to 11 GHz FMWCA9805](#)

URL: <https://www.fairviewmicrowave.com/wr102-sma-female-waveguide-coax-adapter-ug1493-square-fmwca9805-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.



| REVISIONS | | | |
|-----------|-----------------|-----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 3/14/2022 | S. PONG |



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.

TITLE
WR-102 UG-1493/U Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 7 GHz to 11 GHz

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



THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.

SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

| | | | | |
|-----------|--------------------|--------------------|-----------------------|----------|
| SIZE A | CAGE CODE 3FKR5 | DRAWN BY K.DANG | ITEM NO. FMWCA9805 | REV A |
|-----------|--------------------|--------------------|-----------------------|----------|

T-Rev.D