

WR-42 to 2.92mm Female Waveguide to Coax Adapter Square Cover Flange With 18 GHz to 26.5 GHz Frequency Range For K Band

The 42AC216 is a waveguide to coaxial adapter with a frequency range of 18 to 26.5 GHz, operating in the K band. This adapter offers a precision tolerance square cover flange and a WR-42 waveguide interface size. 42AC216 is constructed of aluminum to ensure durability and repeatable RF performance. The coaxial connector offered by this adapter uses a 2.92mm geometry endorsed by International Electrotechnical Commission (IEC). The 2.92mm female connector mates with commercially available SMA and 3.5mm connectors.



Features:

- K Band, 18 to 26.5 GHz Frequency Range
- WR-42 Waveguide Interface with Square Cover Flange
- 2.92mm Female Coaxial Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

Configuration

| | |
|----------------|---------------|
| Waveguide Size | WR-42 |
| Flange | Square Cover |
| RF Connector | 2.92mm Female |
| Impedance | 50 Ohms |
| Body Geometry | Right Angle |

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-----------------|-----|------|--------|-------|
| Frequency Range | 18 | | 26.5 | GHz |
| VSWR | | | 1.25:1 | |
| Insertion Loss | | 0.75 | | dB |

Mechanical Specifications

| | |
|------------------------------|----------------------------|
| Size | |
| Length | 0.62 in [15.75 mm] |
| Width | 0.88 in [22.35 mm] |
| Height | 0.88 in [22.35 mm] |
| Weight | 0.02249 lbs [10.2 g] |
| RF Connector | |
| Connector Type | 2.92mm Female |
| Contact Material and Plating | Beryllium Copper, Gold |
| Body Material and Plating | Passivated Stainless Steel |
| Waveguide Interface | |
| Waveguide Type | WR-42 |
| Flange Type | Square Cover |
| Body Material and Plating | Aluminum |

Environmental Specifications

| | |
|--------------------|-------------------|
| Temperature | |
| Operating Range | -55 to +120 deg C |

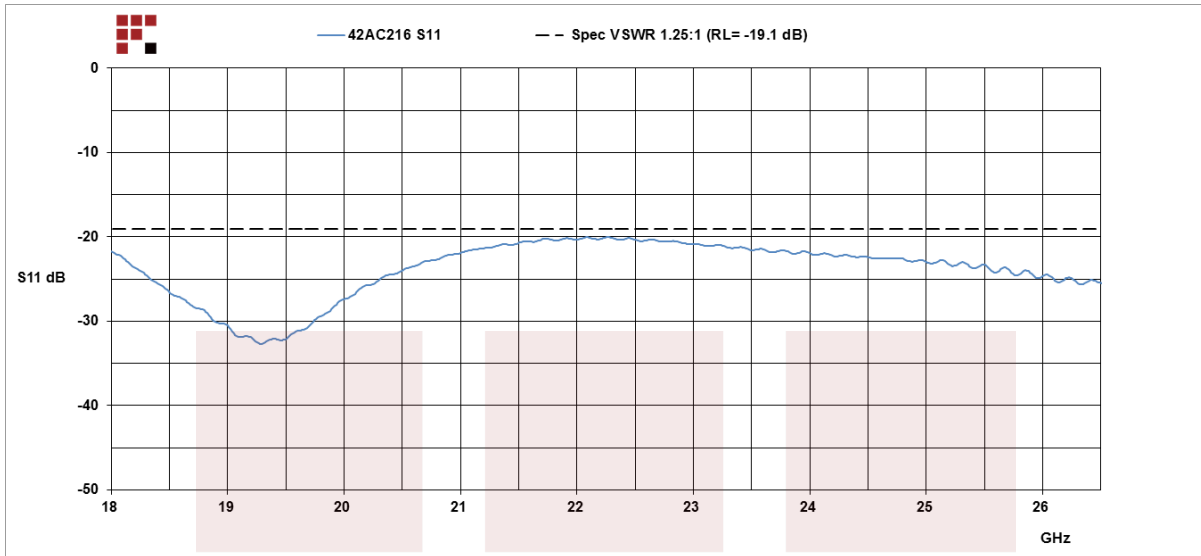
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

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

Fairview Microwave
 1130 Junction Dr. #100
 Allen, TX 75013
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Typical Performance Data

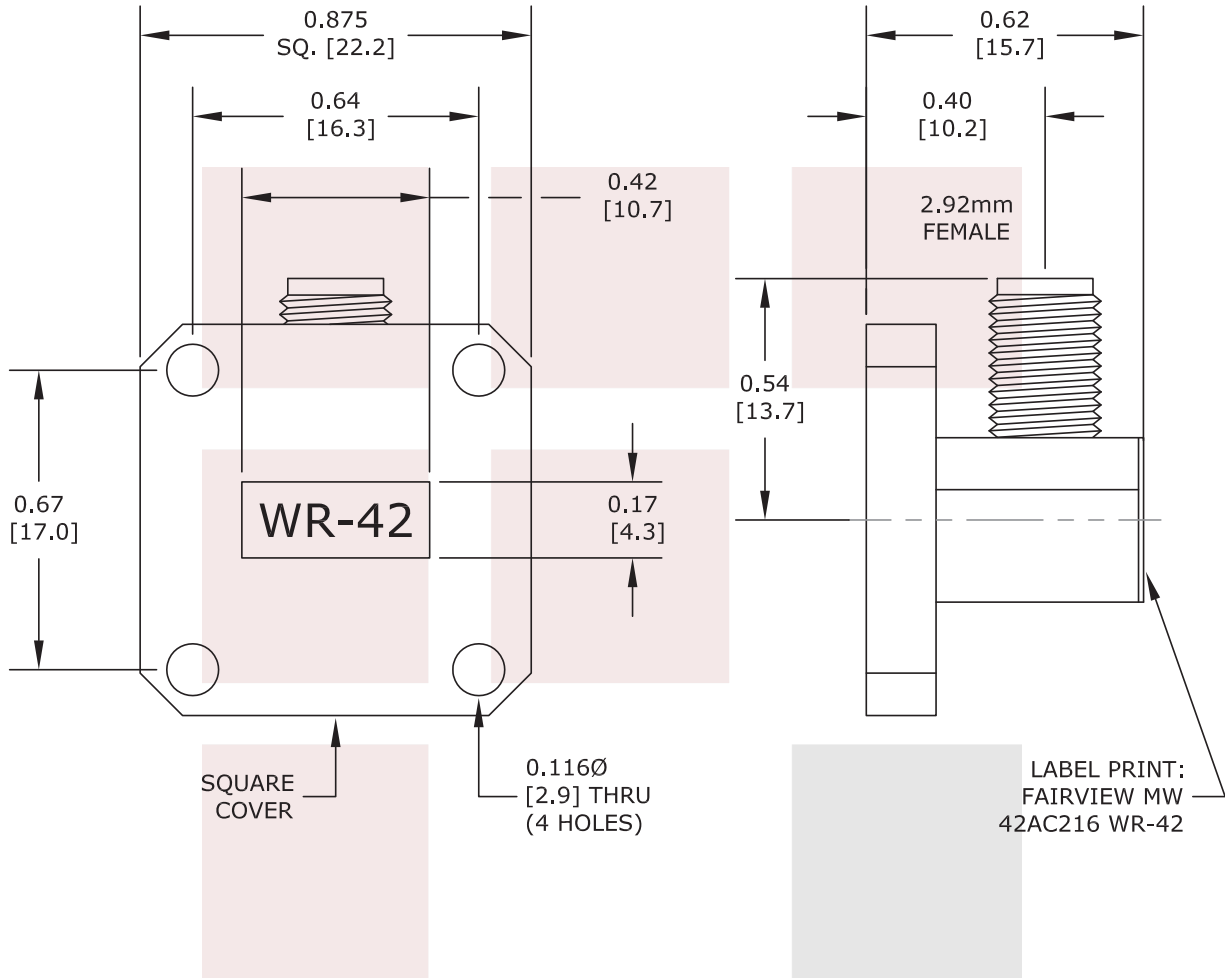


WR-42 to 2.92mm Female Waveguide to Coax Adapter Square Cover Flange With 18 GHz to 26.5 GHz Frequency Range For K Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-42 to 2.92mm Female Waveguide to Coax Adapter Square Cover Flange With 18 GHz to 26.5 GHz Frequency Range For K Band 42AC216](#)

URL: <https://www.fairviewmicrowave.com/wr-42-2.92mm-waveguide-coax-adapter-26.5-ghz-42ac216-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. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | | 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]. | | | |
| TITLE WR-42 to 2.92mm Female Waveguide to Coax Adapter Square Cover Flange With 18 GHz to 26.5 GHz Frequency Range For K Band | | DWG NO 42AC216 | | CAGE CODE 3FKR5 | |
| CAD FILE | 072616 | SHEET | SCALE | N/A | SIZE A 2233 |