

**WR-137 to SMA Female Waveguide to Coax Adapter
 UDR70 Flange With 5.85 GHz to 8.2 GHz Frequency
 Range For C Band**

The SW137A is a waveguide to coaxial adapter with a frequency range of 5.85 to 8.2 GHz, operating in the C band. This adapter offers a precision tolerance UDR70 flange and a WR-137 waveguide interface size. SW137A 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-137 |
| Flange | UDR70 |
| RF Connector | SMA Female |
| Impedance | 50 Ohms |
| Body Geometry | Right Angle |

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-----------------|------|------|--------|-------|
| Frequency Range | 5.85 | | 8.2 | GHz |
| VSWR | | | 1.35:1 | |
| Insertion Loss | | 0.25 | | dB |

Mechanical Specifications

Size

| | |
|--------|----------------------|
| Length | 1.89 in [48.01 mm] |
| Width | 1.94 in [49.28 mm] |
| Height | 2.69 in [68.33 mm] |
| Weight | 0.18254 lbs [82.8 g] |

RF Connector

| | |
|------------------------------|----------------------------|
| Connector Type | SMA Female |
| Specification | 30μ in. min. |
| Contact Material and Plating | Beryllium Copper, Gold |
| Body Material and Plating | Passivated Stainless Steel |

Waveguide Interface

| | |
|---------------------------|----------|
| Waveguide Type | WR-137 |
| Flange Type | UDR70 |
| 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

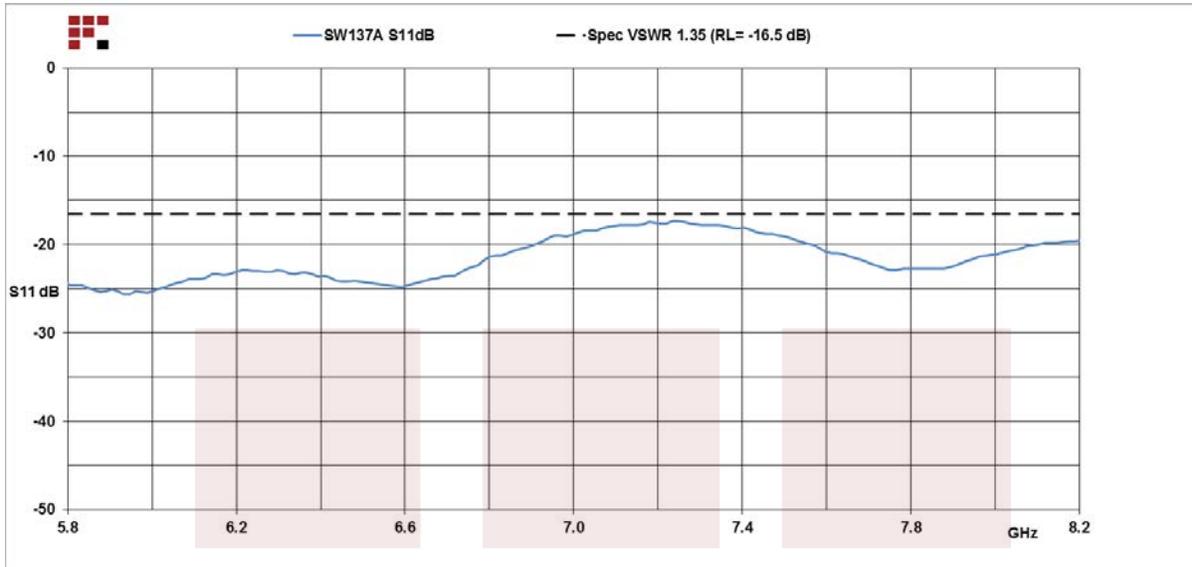


Features:

- C Band, 5.85 to 8.2 GHz Frequency Range
- WR-137 Waveguide Interface with UDR70 Flange
- SMA Female Coaxial Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

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Typical Performance Data

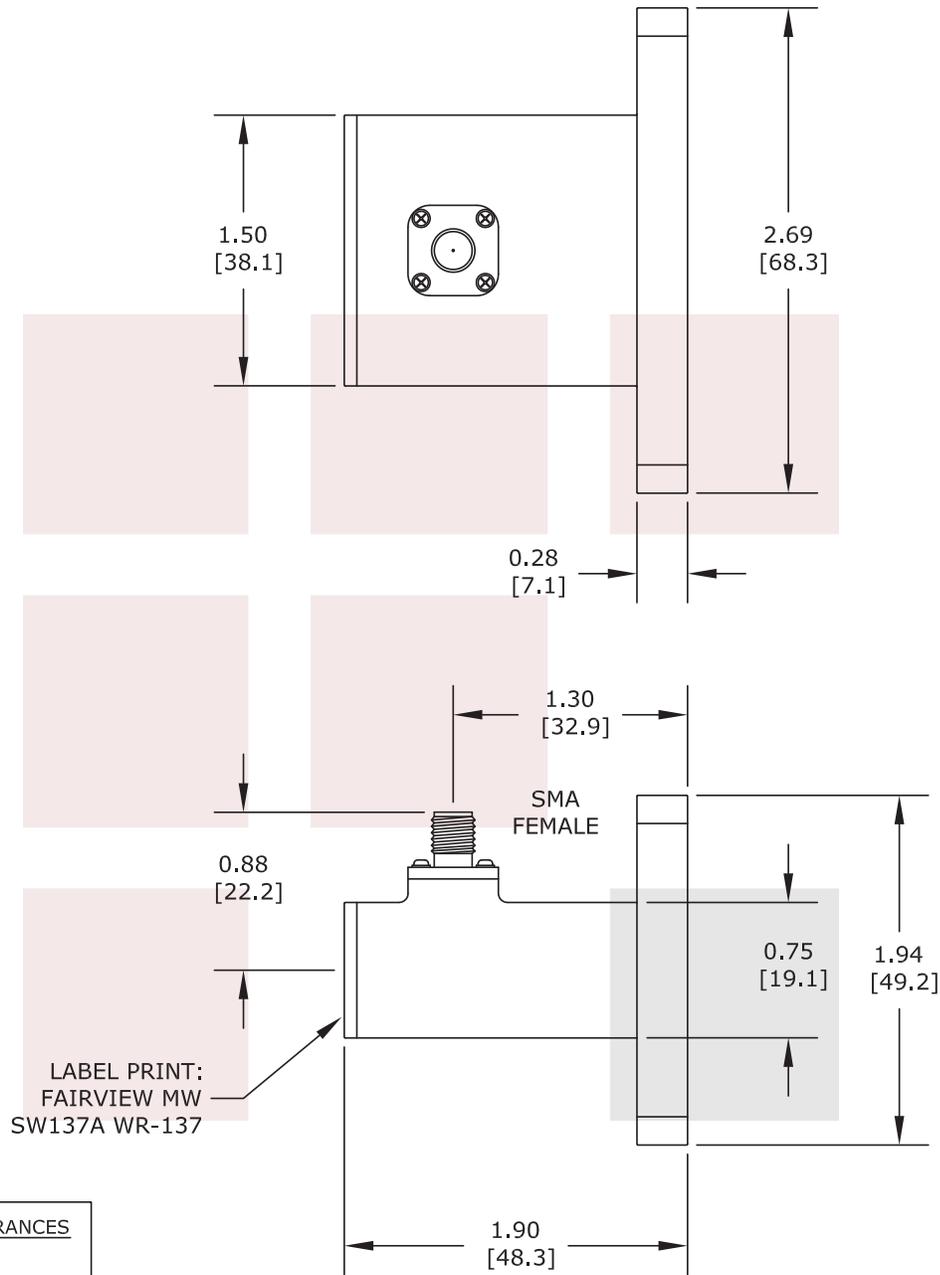


WR-137 to SMA Female Waveguide to Coax Adapter UDR70 Flange With 5.85 GHz to 8.2 GHz Frequency Range For C Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-137 to SMA Female Waveguide to Coax Adapter UDR70 Flange With 5.85 GHz to 8.2 GHz Frequency Range For C Band SW137A](#)

URL: <https://www.fairviewmicrowave.com/wr-137-sma-female-connector-waveguide-coax-adapter-5.85-8.2-ghz-sw137a-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.

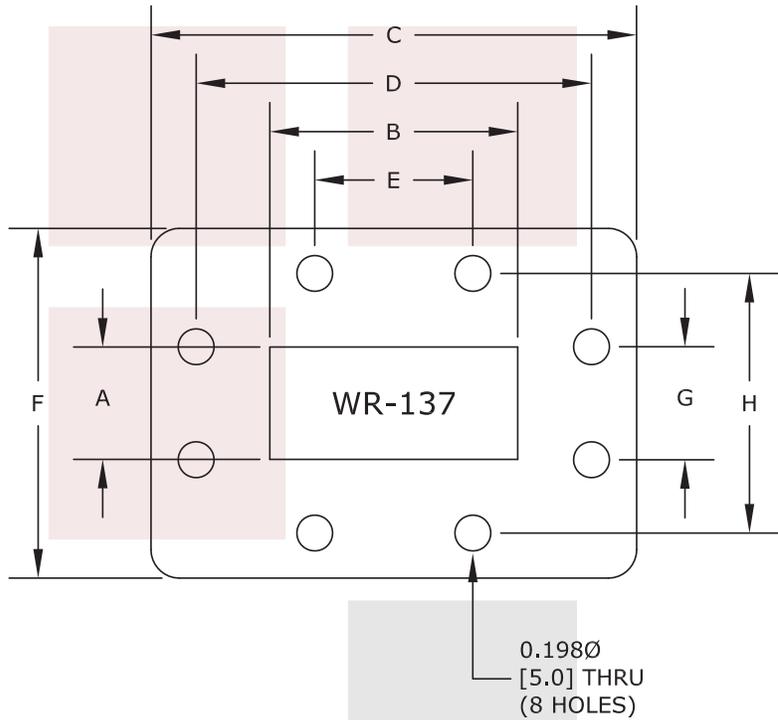


| STANDARD TOLERANCES | |
|---------------------|-------|
| .X | ±0.2 |
| .XX | ±0.1 |
| .XXX | ±0.05 |

*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-137 to SMA Female Waveguide to Coax Adapter UDR70 Flange With 5.85 GHz to 8.2 GHz Frequency Range For C Band | | DWG NO SW137A | | CAGE CODE 3FKR5 | |
| CAD FILE | 072616 | SHEET | SCALE | N/A | SIZE A 2233 |

| UDR70 | | |
|-----------|--------|-------|
| Dimension | Inches | mm |
| A | 0.622 | 15.80 |
| B | 1.372 | 34.85 |
| C | 2.687 | 68.25 |
| D | 2.188 | 55.58 |
| E | 0.875 | 22.23 |
| F | 1.937 | 49.20 |
| G | 0.626 | 15.90 |
| H | 1.438 | 36.53 |



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

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