

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

The SMW137ACN 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. SMW137ACN is constructed of aluminum to ensure durability and repeatable RF performance. The coaxial connector offered by this adapter uses an N female connector and the package is REACH and RoHS compliant.

**Configuration**

Waveguide Size	WR-137
Flange	UDR70
RF Connector	N Female
Impedance	50 Ohms
Body Geometry	Right Angle

**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	5.85		8.2	GHz
VSWR			1.25:1	
Insertion Loss		0.25		dB
Input Power (CW)			150	Watts
Input Power (Peak)			3	KWatts

**Mechanical Specifications**

**Size**

Length	1.94 in [49.28 mm]
Width	2.69 in [68.33 mm]
Height	1.89 in [48.01 mm]
Weight	0.20723 lbs [94 g]

**RF Connector**

Connector Type	N Female
Specification	30μ in. min.
Contact Material and Plating	Beryllium Copper, Gold
Body Material and Plating	Brass, Nickel

**Waveguide Interface**

Waveguide Type	WR-137
Flange Type	UDR70
Body Material and Plating	Aluminum

**Environmental Specifications**

**Temperature**

Operating Range	-55 to +120 deg C
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**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

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

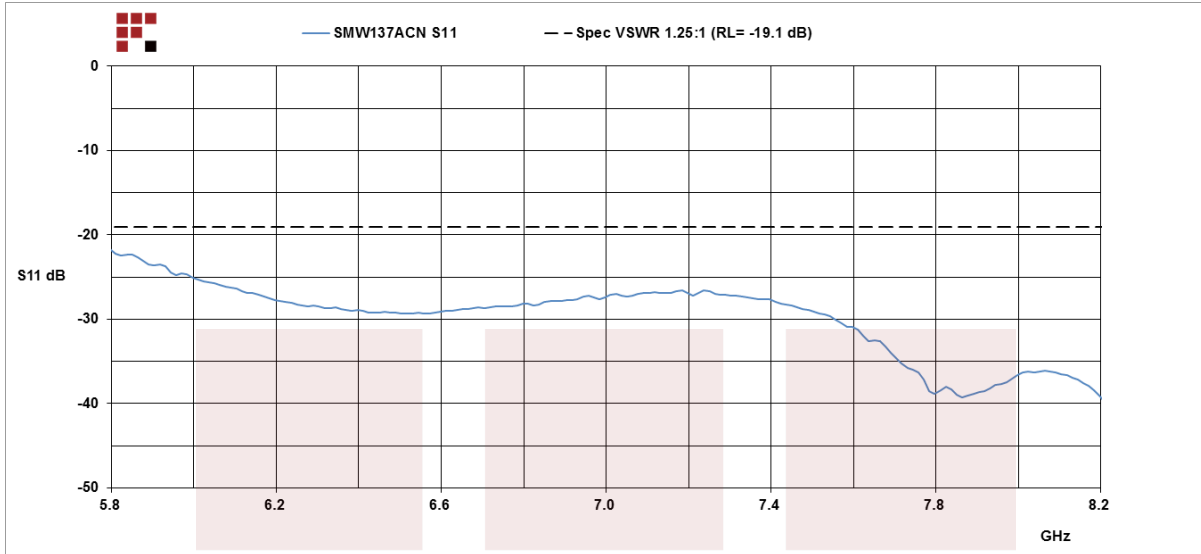


**Features:**

- C Band, 5.85 to 8.2 GHz Frequency Range
- WR-137 Waveguide Interface with UDR70 Flange
- N 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**

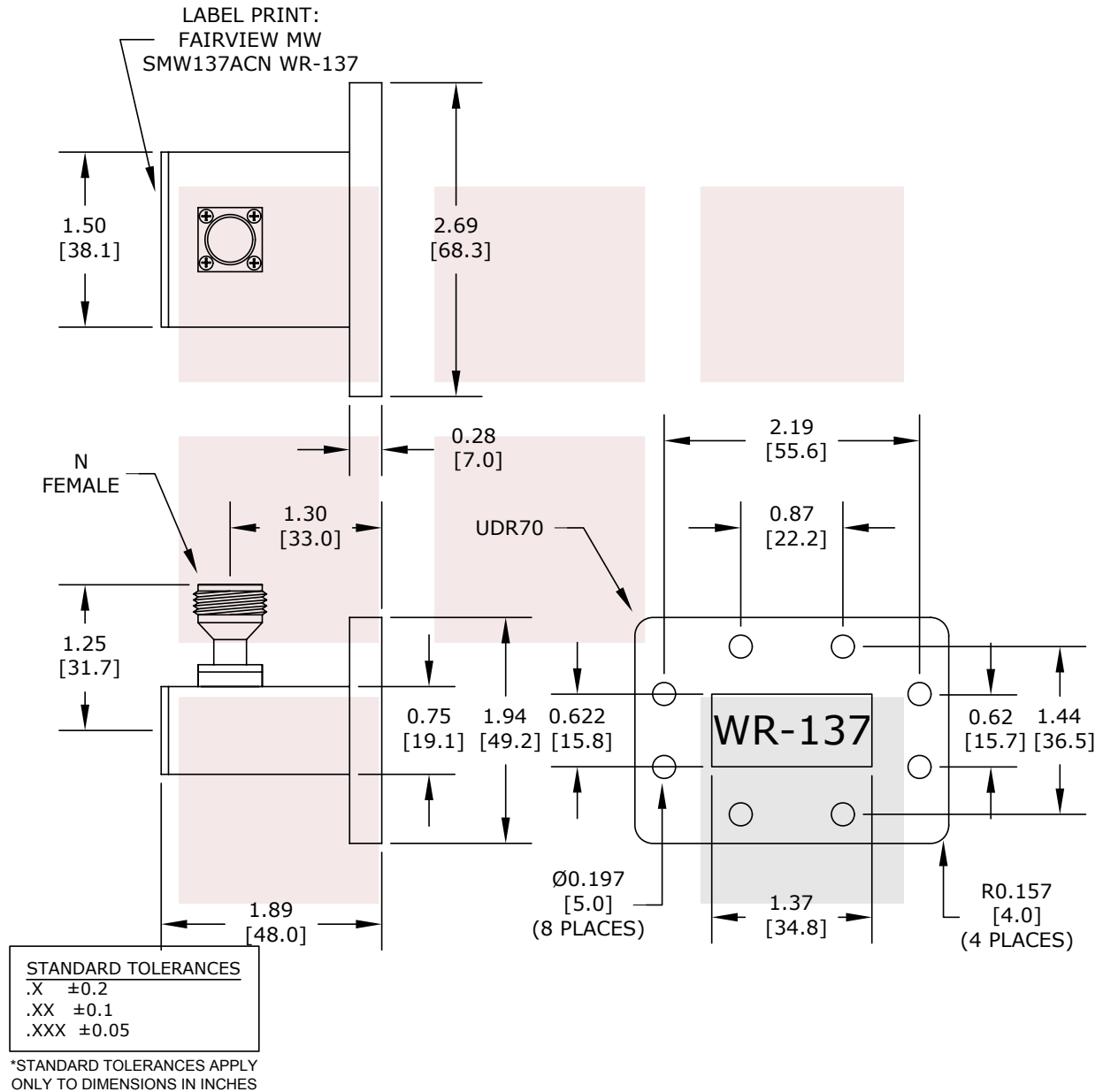


WR-137 to N Female Waveguide to Coax Adapter UDR70 Flange With 5.85 GHz to 8.2 GHz Frequency Range For C Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview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

For additional information on this product, please click the following link: [WR-137 to N Female Waveguide to Coax Adapter UDR70 Flange With 5.85 GHz to 8.2 GHz Frequency Range For C Band SMW137ACN](https://www.fairviewmicrowave.com/wr-137-n-female-connector-waveguide-coax-adapter-5.85-8.2-ghz-smw137acn-p.aspx)

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TITLE WR-137 to N Female Waveguide to Coax Adapter UDR70 Flange With 5.85 GHz to 8.2 GHz Frequency Range For C Band		DWG NO SMW137ACN		CAGE CODE 3FKR5	
CAD FILE	072116	SHEET	SCALE	N/A	SIZE A 3045