

## WR-137 to Type N Female Waveguide to Coax Adapter PDR70 with 5.38 GHz to 8.17 GHz in Aluminum

The FMWCA1087 is a right angle waveguide to coaxial adapter operating at a frequency range of 5.38 GHz to 8.17 GHz. This adapter offers a WR-137 waveguide interface size coupled with a precision tolerance PDR70 flange. The FMWCA1087 is constructed of aluminum and painted gray to ensure durability. The coaxial connector offered by this adapter uses an N Female connector.

### Configuration

Waveguide Size	WR-137
Flange	PDR70
RF Connector	N Female
Body Geometry	Right Angle

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	5.38		8.17	GHz
VSWR			1.25:1	
Insertion Loss			0.2	dB
Input Power (CW)			100	Watts

### Mechanical Specifications

<b>Size</b>	
Length	2.36 in [59.94 mm]
Width	2.69 in [68.33 mm]
Height	1.94 in [49.28 mm]

<b>RF Connector</b>	
Connector Type	N Female

<b>Waveguide Interface</b>	
Waveguide Type	WR-137
Flange Type	PDR70
Body Material and Plating	Aluminum

### Environmental Specifications

<b>Temperature</b>	
Operating Range	-40 to +70 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:

- 5.38 GHz to 8.17 GHz Frequency Range
- WR-137 Waveguide Interface
- PDR70 Flange
- N Female RF Interface
- Comprehensive waveguide offering also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

### 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](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

WR-137 to Type N Female Waveguide to Coax Adapter PDR70 with 5.38 GHz to 8.17 GHz in Aluminum 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.

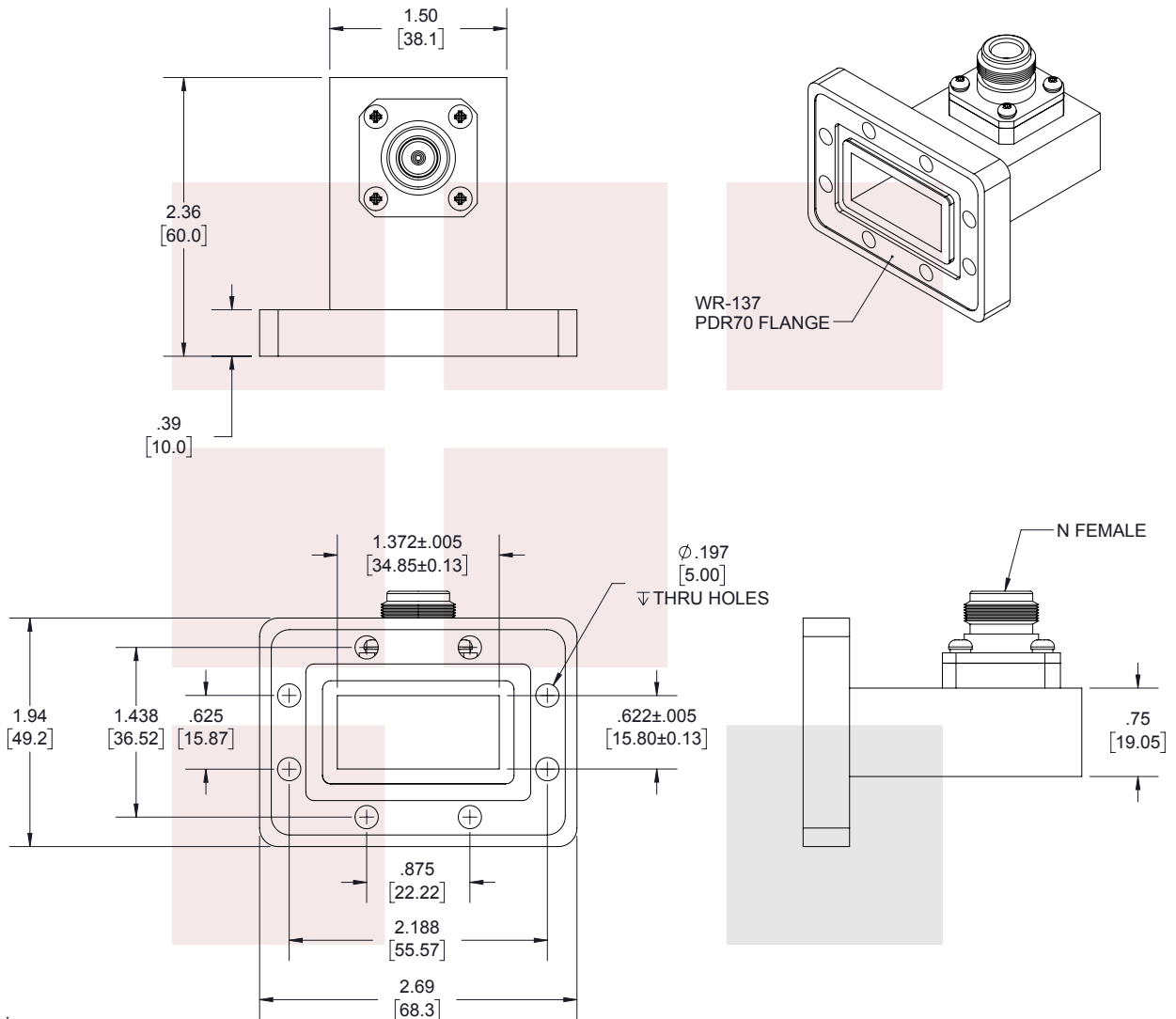
For additional information on this product, please click the following link: [WR-137 to Type N Female Waveguide to Coax Adapter PDR70 with 5.38 GHz to 8.17 GHz in Aluminum FMWCA1087](#)

URL: <https://www.fairviewmicrowave.com/wr137-type-n-female-waveguide-coax-adapter-pdr70-fmwca1087-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	05/04/2020	SPONG



LABEL:

FAIRVIEW MICROWAVE  
FMWCA1087  
D/C: YYWW

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-137 to Type N Female Waveguide to Coax Adapter  
PDR70 with 5.38 GHz to 8.17 GHz in Aluminum

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 BPUCHASKI	ITEM NO. FMWCA1087	REV A
-----------	--------------------	-----------------------	-----------------------	----------

T-Rev.D