



WR-137 PDR70 Flange to N Female Waveguide to Coax Adapter Operating from 5.38 GHz to 8.17 GHz in Aluminum

Waveguide to Coax Adapters Technical Data Sheet

PEWCA1087

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

Description

The PEWCA1087 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 PEWCA1087 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	Minimum	Typical	Maximum	Units
Frequency Range	5.38		8.17	GHz
VSWR			1.25:1	
Insertion Loss			0.2	dB
Input Power (CW)			100	Watts

Mechanical Specifications

Size	
Length	2.36 in [59.94 mm]
Width	2.69 in [68.33 mm]
Height	1.94 in [49.28 mm]

RF Connector	
Connector Type	N Female

Waveguide Interface	
Waveguide Type	WR-137

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-137 PDR70 Flange to N Female Waveguide to Coax Adapter Operating from 5.38 GHz to 8.17 GHz in Aluminum PEWCA1087](#)



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Flange Type
Body Material and Plating

PDR70
Aluminum

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

Plotted and Other Data

Notes:

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

WR-137 PDR70 Flange to N Female Waveguide to Coax Adapter Operating from 5.38 GHz to 8.17 GHz in Aluminum from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

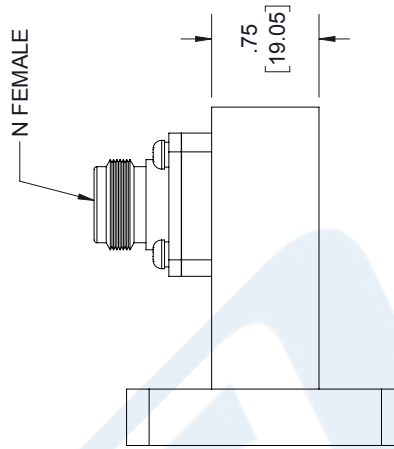
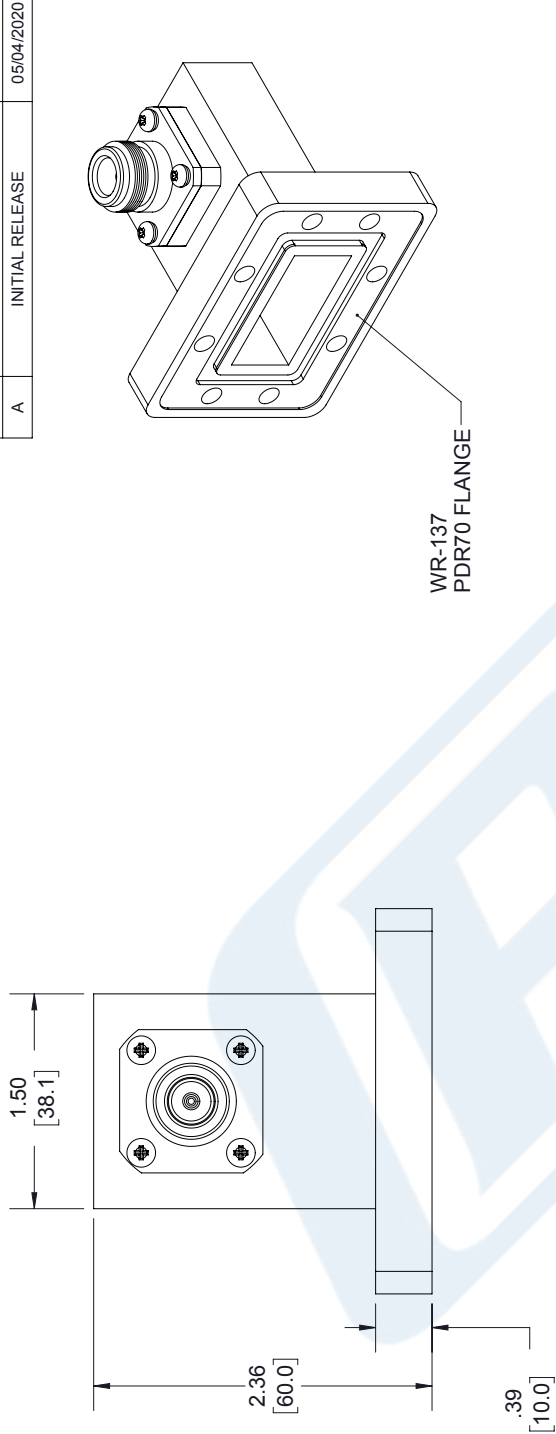
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-137 PDR70 Flange to N Female Waveguide to Coax Adapter Operating from 5.38 GHz to 8.17 GHz in Aluminum PEWCA1087](#)

URL: <https://www.pasternack.com/wr137-pdr70-flange-to-type-n-female-waveguide-coax-adapter-8.17-ghz-pewca1087-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	05/04/2020	SPONG



PASTERNAK
PEWCA1087
D/C: YYWW

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	TOLERANCES: .X ± .02 [.08] FRACTIONS ± 1/32 .XX ± .02 [.51] ANGLES ± 1° .XXX ± .005 [.13] CABLE LENGTH (L) TOLERANCES: L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = ± 1 [1] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5% / L -0 ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
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SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	BPUCHASKI	PEWCK

THIRD-ANGLE PROJECTION		
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SHEET	1	OF 1
SCALE	N/A	
1087	REV	A

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