



WR-159 UDR58 Flange to SMA Female Waveguide to Coax Adapter Operating from 5.38 GHz to 8.17 GHz in Aluminum

Waveguide to Coax Adapters Technical Data Sheet

PEWCA1085

Features

- 5.38 GHz to 8.17 GHz Frequency Range
- WR-159 Waveguide Interface
- UDR58 Flange
- SMA 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 PEWCA1085 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-159 waveguide interface size coupled with a precision tolerance UDR58 flange. The PEWCA1085 is constructed of aluminum and painted gray to ensure durability. The coaxial connector offered by this adapter uses an SMA Female connector.

Configuration

Waveguide Size	WR-159
Flange	UDR58
RF Connector	SMA 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	1.91 in [48.51 mm]
Width	3.19 in [81.03 mm]
Height	2.43 in [61.72 mm]

RF Connector	
Connector Type	SMA Female

Waveguide Interface	
Waveguide Type	WR-159

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-159 UDR58 Flange to SMA Female Waveguide to Coax Adapter Operating from 5.38 GHz to 8.17 GHz in Aluminum PEWCA1085](#)



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Flange Type
Body Material and Plating

UDR58
Aluminum

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

Plotted and Other Data

Notes:

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

WR-159 UDR58 Flange to SMA 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.

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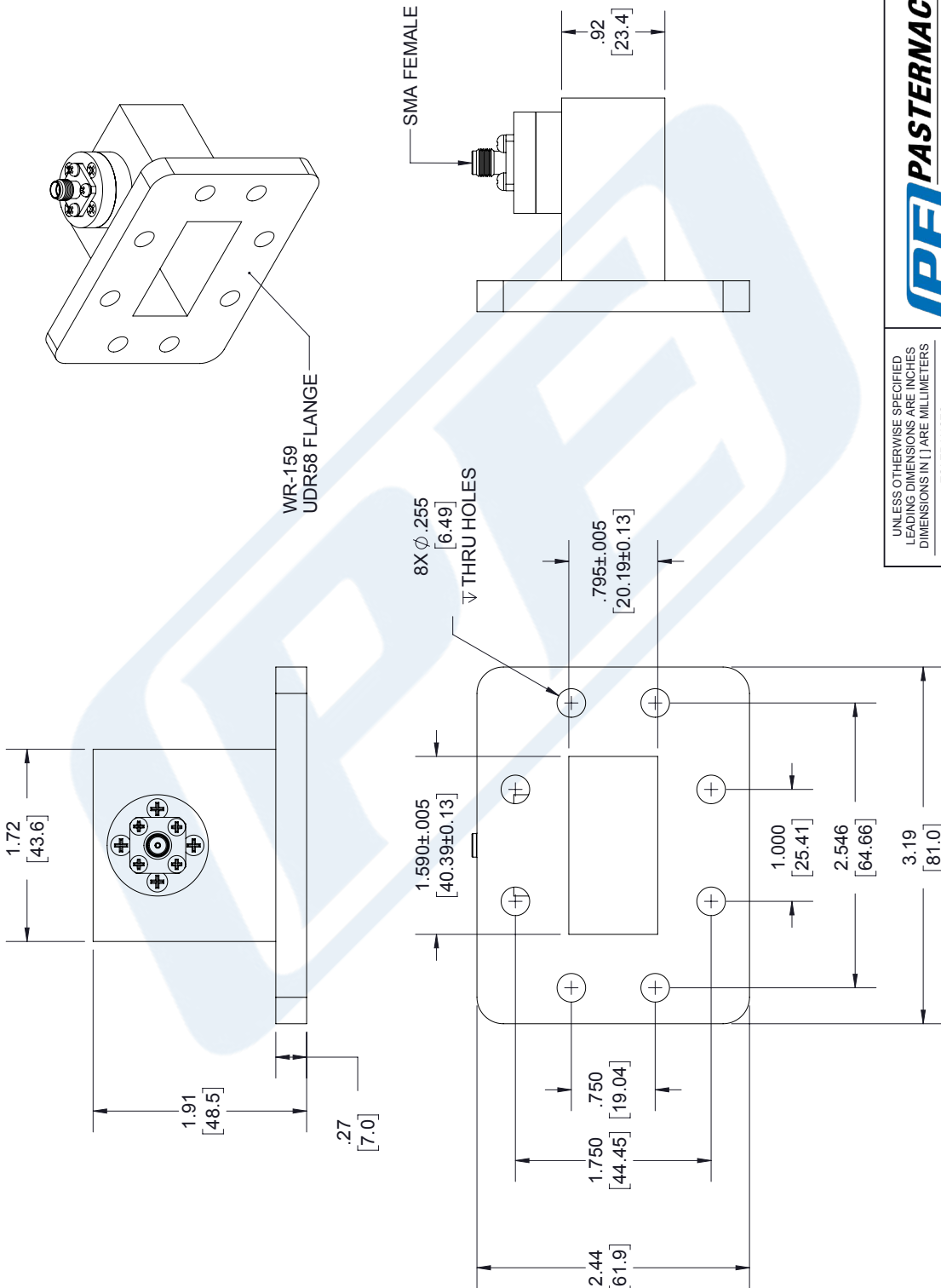
URL: <https://www.pasternack.com/wr159-udr58-flange-to-sma-female-waveguide-coax-adapter-8.17-ghz-pewca1085-p.aspx>

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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PEWCA1085 CAD Drawing

WR-159 UDR58 Flange to SMA Female Waveguide to Coax Adapter
Operating from 5.38 GHz to 8.17 GHz in Aluminum

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/30/2020	SPONG



LABEL:

PASTERNAK
PEWCA1085
D/C: YYWW

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ±.2	[.08]	FRACTIONS
.XX = ±.02	[.51]	± 1/32
.XXX = ±.005	[.13]	ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305]	= +1 [25] / -0
12 [305] < L ≤ 60 [1524]	= +2 [51] / -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.

PE PASTERNAK
an INFINITI® brand

Pasternack Enterprises, Inc.
P.O. Box 16759, Irvine, CA 92623.
Phone: 1.949.261.1920 | 1.866.727.8376
Fax: 1.949.261.7451
Website: www.pasternack.com
E-mail: sales@pasternack.com

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO
A	53919	BPUCHASKI	PEWCA1085

REV A