



50 Watts WR-159 Waveguide Load 4.8 GHz to 5.2 GHz, Brass with CPR-159F Flange

Waveguide Terminations Technical Data Sheet

PE-W159TR1001

Features

- WR-159 Waveguide
- Operating Frequency Range from 4.8 GHz to 5.2 GHz
- CPR-159F Flange
- 1.2:1 Max VSWR
- 50 Watts Average Power Handling

Applications

- Radar Systems
- Military and Space
- Wireless Radio Systems
- Telecom Infrastructure
- Communication Systems
- R&D Labs
- Microwave Radio Systems

Description

The PE-W159TR1001 is a WR-159 waveguide termination/load that operates in the frequency range of 4.8 GHz to 5.2 GHz. This WR-159 waveguide termination has a Max VSWR of 1.2:1. This waveguide termination design is made of painted brass and incorporates a CPR-159F flange. Waveguide terminations are part of Pasternack's comprehensive waveguide product offerings which are available in stock and ready for same-day shipment.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	4.8		5.2	GHz
VSWR			1.2:1	
Input Power (CW)			50	Watts

Mechanical Specifications

Size	
Length	3.94 in [100.08 mm]
Width/Dia.	2.44 in [61.98 mm]
Height	3.35 in [85.09 mm]
Weight	0.75 lbs [340.19 g]

Description	Flange	Waveguide
Designation		WR-159
Type	CPR-159F	
Material	Brass	Brass
Plating		Passivated
Finish		Grey paint

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Watts WR-159 Waveguide Load 4.8 GHz to 5.2 GHz, Brass with CPR-159F Flange PE-W159TR1001](#)



50 Watts WR-159 Waveguide Load 4.8 GHz to
5.2 GHz, Brass with CPR-159F Flange

Waveguide Terminations Technical Data Sheet

PE-W159TR1001

Environmental Specifications

Temperature

Operating Range

-40 to +70 deg C

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

Notes:

50 Watts WR-159 Waveguide Load 4.8 GHz to 5.2 GHz, Brass with CPR-159F Flange 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: [50 Watts WR-159 Waveguide Load 4.8 GHz to 5.2 GHz, Brass with CPR-159F Flange PE-W159TR1001](#)

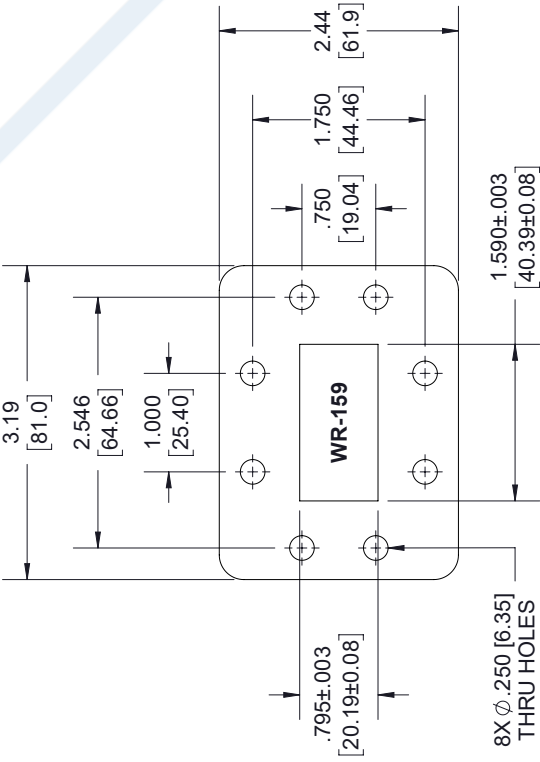
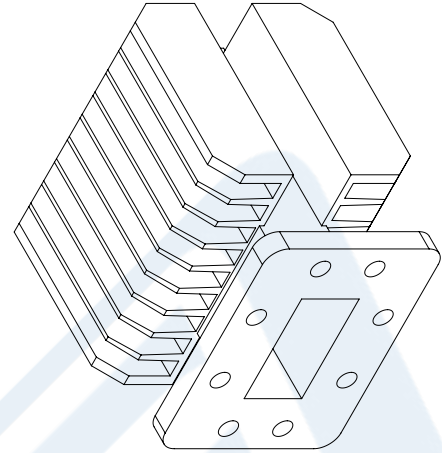
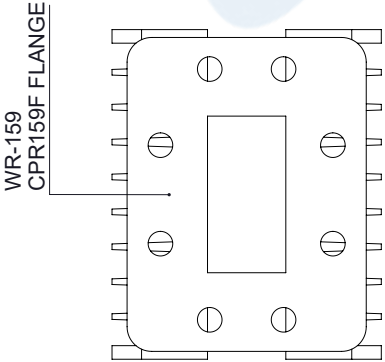
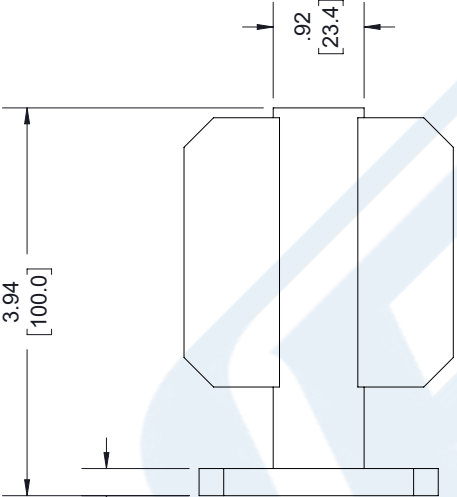
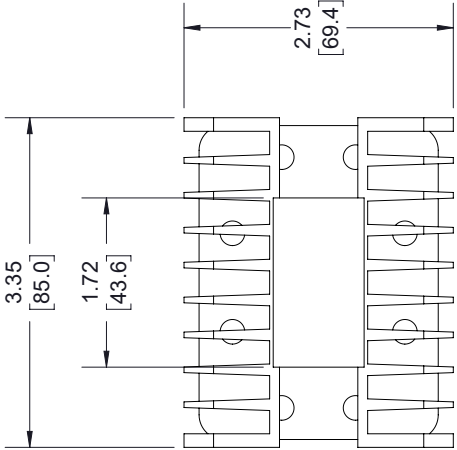
URL: <https://www.pasternack.com/50-watts-wr-159-rf-load-4.8-5.2-ghz-instrumentation-grade-pe-w159tr1001-p.aspx>

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.

PE-W159TR1001 CAD Drawing

50 Watts WR-159 Waveguide Load 4.8 GHz to 5.2 GHz, Brass with CPR-159F Flange

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	3/23/2021	S.PONG



FLANGE DETAIL

NOTES:

1. LABEL PER ILS-100-09. FOR INTERNAL USE ONLY. LABEL LOCATION FOR REFERENCE ONLY.

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.

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

TOLERANCES:
.X = ± .2 [5.08]
.XX = ± .02 [.51]
.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% / -0
ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.



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



THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	K.DANG	PE-W159TR1001	A