



50 Watts WR-90 Waveguide Load 8.2 GHz to 12.5 GHz,
Aluminum with UG Square Cover Flange

Waveguide Terminations Technical Data Sheet

PE-W90TR1002

Features

- WR-90 Waveguide
- Operating Frequency Range from 8.2 GHz to 12.5 GHz
- UG Square Cover Flange Flange
- 1.25:1 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-W90TR1002 is a WR-90 waveguide termination/load that operates in the frequency range of 8.2 GHz to 12.5 GHz. This WR-90 waveguide termination has a Max VSWR of 1.25:1. This waveguide termination design is made of painted aluminum and incorporates a standard UG Square Cover 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	8.2		12.5	GHz
VSWR			1.25:1	
Input Power (CW)			50	Watts

Mechanical Specifications

Size	
Length	3.54 in [89.92 mm]
Width/Dia.	1.63 in [41.4 mm]
Height	1.63 in [41.4 mm]

Description	Flange	Waveguide
Designation	UG-135/U	WR-90
Type	Square Cover	
Material	Aluminum	Aluminum
Plating		Chromate
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-90 Waveguide Load 8.2 GHz to 12.5 GHz, Aluminum with UG Square Cover Flange PE-W90TR1002](#)



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Environmental Specifications

Temperature

Operating Range

-40 to +70 deg C

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

Notes:

50 Watts WR-90 Waveguide Load 8.2 GHz to 12.5 GHz, Aluminum with UG Square Cover 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.

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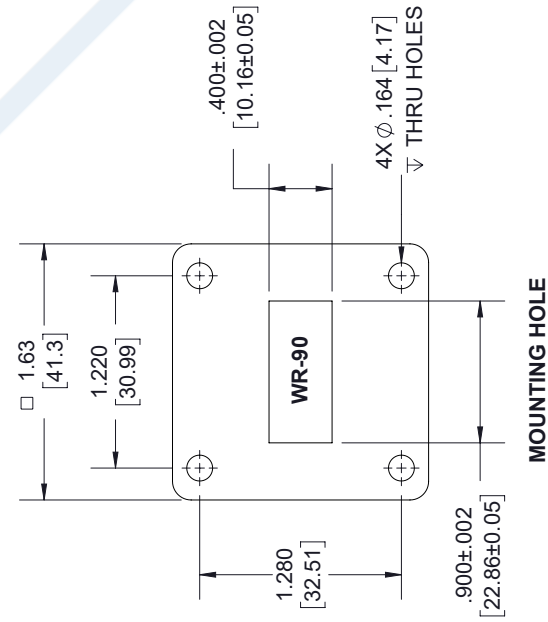
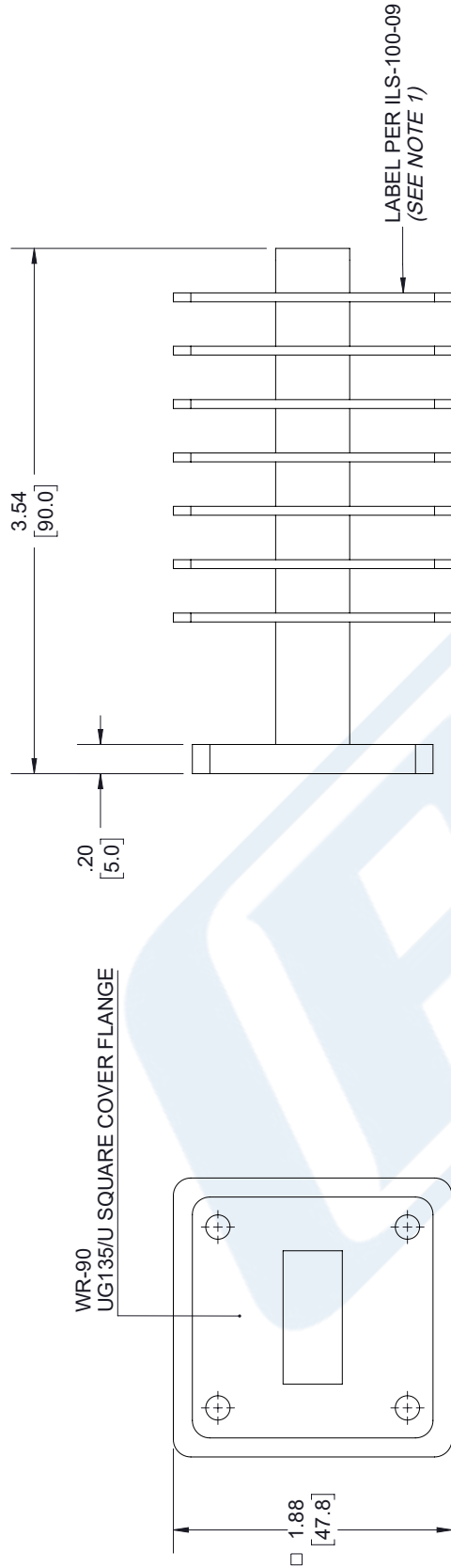
URL: <https://www.pasternack.com/50-watts-wr-90-rf-load-8.2-12.5-ghz-instrumentation-grade-pe-w90tr1002-p.aspx>

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PE-W90TR1002 CAD Drawing

50 Watts WR-90 Waveguide Load 8.2 GHz to 12.5 GHz,
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	3/30/2021	S.PONG



NOTES:

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

TOLERANCES:

.X = ±.2	[5.08]	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% / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

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SHEET 1 OF 1

SCALE N/A

SIZE CAGE CODE DRAWN BY ITEM NO

A 53919 K.DANG PE-W90TR1002 REV A