



100 Watts WR-28 Waveguide Load 26.5 GHz to 40 GHz, Brass with UG Square Cover Flange

## Waveguide Terminations Technical Data Sheet

**PE-W28TR1005**

### Features

- WR-28 Waveguide
- Operating Frequency Range from 26.5 GHz to 40 GHz
- UG Square Cover Flange
- 1.25:1 Max VSWR
- 100 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-W28TR1005 is a WR-28 waveguide termination/load that operates in the frequency range of 26.5 GHz to 40 GHz. This WR-28 waveguide termination has a Max VSWR of 1.25:1. This waveguide termination design is made of painted brass 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  | 26.5    |         | 40      | GHz   |
| VSWR             |         |         | 1.25:1  |       |
| Input Power (CW) |         |         | 100     | Watts |

### Mechanical Specifications

|             |                     |
|-------------|---------------------|
| <b>Size</b> |                     |
| Length      | 5.31 in [134.87 mm] |
| Width/Dia.  | 1.5 in [38.1 mm]    |
| Height      | 1.5 in [38.1 mm]    |

| Description | Flange       | Waveguide  |
|-------------|--------------|------------|
| Designation | UG-599/U     | WR-28      |
| Type        | Square Cover |            |
| 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: [100 Watts WR-28 Waveguide Load 26.5 GHz to 40 GHz, Brass with UG Square Cover Flange PE-W28TR1005](#)



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### Environmental Specifications

#### Temperature

Operating Range

-40 to +70 deg C

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

Notes:

100 Watts WR-28 Waveguide Load 26.5 GHz to 40 GHz, Brass 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [100 Watts WR-28 Waveguide Load 26.5 GHz to 40 GHz, Brass with UG Square Cover Flange PE-W28TR1005](#)

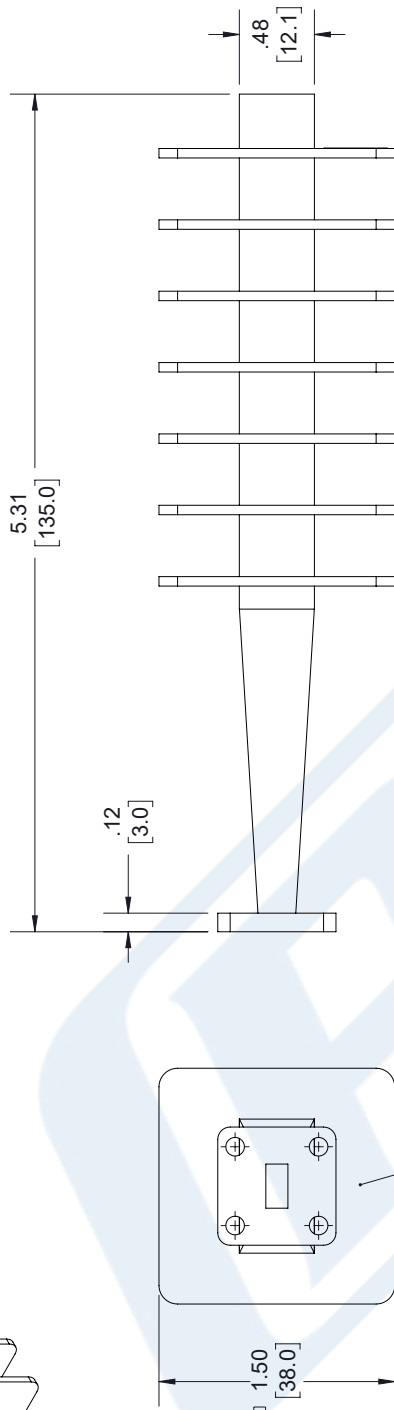
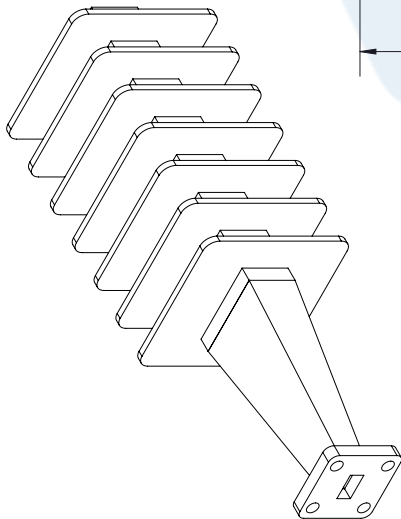
URL: <https://www.pasternack.com/100-watts-wr-28-rf-load-26.5-40-ghz-instrumentation-grade-pe-w28tr1005-p.aspx>

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.

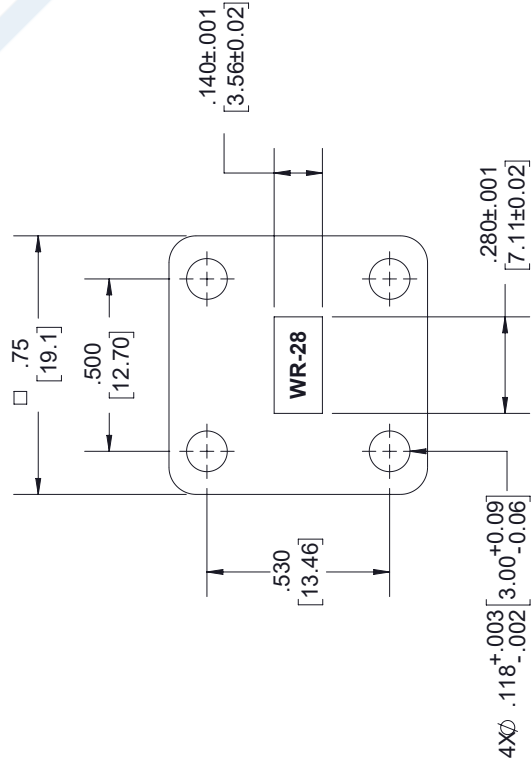
# PE-W28TR1005 CAD Drawing

100 Watts WR-28 Waveguide Load 26.5 GHz to 40 GHz,  
Brass with UG Square Cover Flange

| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 3/31/2021 | S.PONG   |



WR-28  
UG599/U SQ. COVER FLANGE



FLANGE DETAIL

THRU HOLES

NOTES:

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

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

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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% L    | / -0 |

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE CAGE CODE DRAWN BY ITEM NO

A 53919 K.DANG PE-W28TR1005

REV A