



WR-12 Instrumentation Grade Straight Waveguide Section 12 Inch Length with UG-387/U Flange Operating from 60 GHz to 90 GHz

TECHNICAL DATA SHEET

PE-W12S001-12

Pasternack's instrumentation grade waveguide sections are constructed of a high quality oxygen free hard copper with high precision mechanical tolerances as tight as ± 0.001 " that ensures repeatable and consistent RF performance. Our commercial and instrumentation grade waveguide sections range in size from WR-12 to WR-137 and include grooved and non-grooved flanged designs. Standard lengths of Pasternack waveguide sections are offered from 3" to 12" in 3" increments and each waveguide section is labeled for easy identification. Custom lengths are available upon request. Our commercial grade waveguide sections are painted blue and our instrumentation grade versions are hard gold plated over a copper flash.

Features

- WR-12 to WR-137 Waveguide Sections
- Grooved and Non-Grooved Flange Designs
- Available for frequency ranges between 5.8 GHz to 90 GHz
- Comprehensive waveguide offering also includes E-Bends, H-Bends, Waveguide to Coax Adapters, Filters, Terminations, and more.
- High Precision Tolerance as Tight as ± 0.001 "

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	60		90	GHz
VSWR			1.06:1	
Insertion Loss			0.82 [2.69]	dB/ft [dB/m]

Mechanical Specifications

Waveguide Size	WR-12
Waveguide Design	Instrumentation Grade
Section Length	12 in [304.8 mm]

Description	Flange 1	Waveguide	Flange 2
Flange Type	Round Cover		Round Cover
Flange Designation	UG-387/U	WR-12	UG-387/U
Material	Oxygen Free Hard Copper	Oxygen Free Hard Copper	Oxygen Free Hard Copper
Plating	Hard Gold over Copper Flash	Hard Gold over Copper Flash	Hard Gold over Copper Flash
Color	Gold	Gold	Gold

Size	
Weight	0.274 lbs [124.28 g]

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

- Notes:
- Values at +25 °C, sea level

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-12 Instrumentation Grade Straight Waveguide Section 12 Inch Length with UG-387/U Flange Operating from 60 GHz to 90 GHz PE-W12S001-12](#)



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Power Data

WR-12 Instrumentation Grade Straight Waveguide Section 12 Inch Length with UG-387/U Flange Operating from 60 GHz to 90 GHz 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.

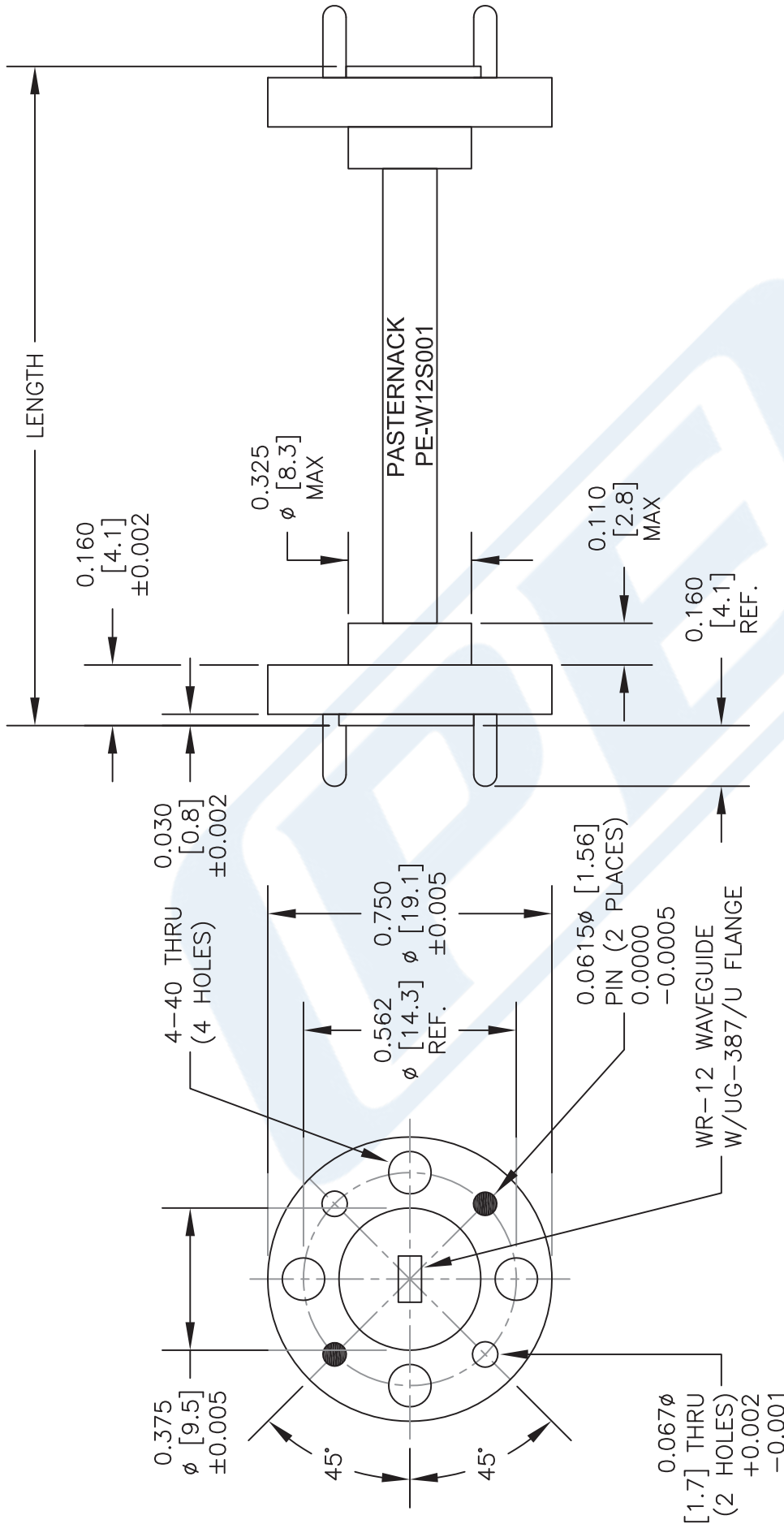
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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-W12S001-12 CAD Drawing

WR-12 Instrumentation Grade Straight Waveguide Section 12 Inch
Length with UG-387/U Flange Operating from 60 GHz to 90 GHz



WR-12	Length
PE-W12S001-3	3 in.
PE-W12S001-6	6 in.
PE-W12S001-9	9 in.
PE-W12S001-12	12 in.

STANDARD TOLERANCES

.X ±0.2
.XX ±0.1
.XXX ±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

DWG TITLE

PE-W12S001

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

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SCALE N/A

SIZE A

2233