



WR-137 to WR-112 Waveguide Transition 6 Inch Length, UG-344/U Round Cover Flange to UG-51/U Square Cover Flange

Waveguide Transitions Technical Data Sheet

PEWTS1000

**Features**

- Transitions from WR-137 to WR-112 waveguide
- WR-137 waveguide UG-344/U flange
- WR-112 waveguide UG-51/U flange
- Painted finish

**Applications**

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

**Description**

The PEWTS1000 is part of Pasternack's Waveguide Transitions (also sometimes called waveguide adapters) used as a means of propagating RF/Microwave energy from one waveguide size to another. The PEWTS1000 allows the waveguide to change from a WR-137 waveguide (using a UG-344/U flange) to a WR-112 waveguide (using a UG-51/U flange).

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
VSWR		1.08:1		

**Mechanical Specifications**

**Size**  
 Length 6 in [152.4 mm]  
 Weight 1.54 lbs [698.53 g]

Description	Flange 1	Waveguide	Flange 2
Designation	UG-344/U	WR-137 to WR-112	UG-51/U
Flange Type	Round Cover		Square Cover
Material	Brass	Brass	Brass

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant  
 REACH Compliant 12/17/2015

**Plotted and Other Data**

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-137 to WR-112 Waveguide Transition 6 Inch Length, UG-344/U Round Cover Flange to UG-51/U Square Cover Flange PEWTS1000](#)



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WR-137 to WR-112 Waveguide Transition 6 Inch Length, UG-344/U Round Cover Flange to UG-51/U 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% availability and are part of the broadest selection in the industry.

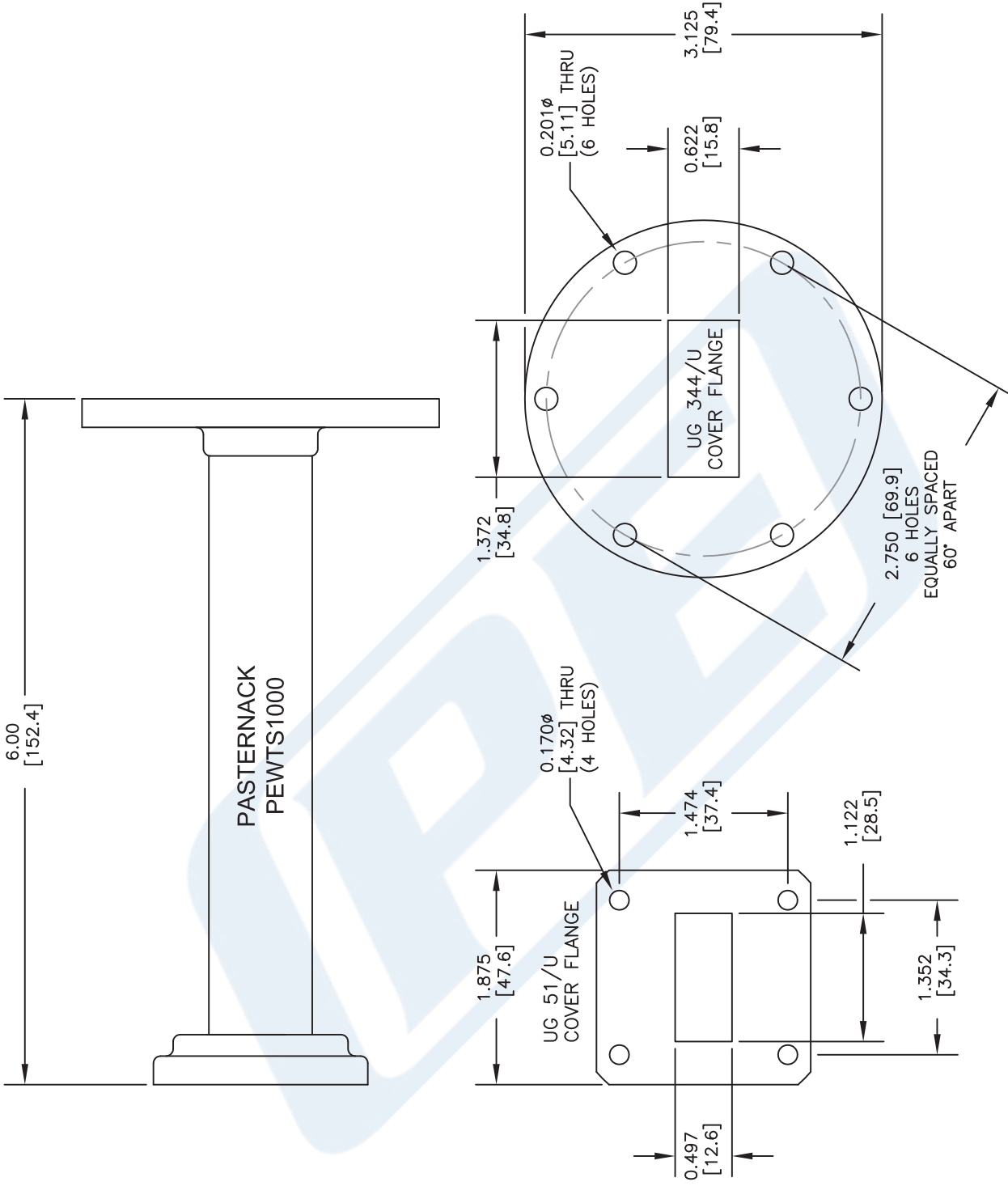
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-137 to WR-112 Waveguide Transition 6 Inch Length, UG-344/U Round Cover Flange to UG-51/U Square Cover Flange PEWTS1000](http://www.pasternack.com/wr137-wr112-waveguide-transition-ug344-round-cover-ug51-square-cover-flange-pewts1000)

URL: <http://www.pasternack.com/wr137-wr112-waveguide-transition-ug344-round-cover-ug51-pewts1000-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.

# PEWTS1000 CAD Drawing

WR-137 to WR-112 Waveguide Transition 6 Inch Length, UG-344/U  
Round Cover Flange to UG-51/U Square Cover Flange



**STANDARD TOLERANCES**  
 .X ±0.2  
 .XX ±0.1  
 .XXX ±0.05

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

**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].

DWG TITLE  
**PEWTS1000**

FSCM NO. 53919

CAD FILE 010616

SCALE N/A

SIZE A

2233

**(PE) PASTERNAK®**  
 THE ENGINEER'S RF SOURCE

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