



## WR-112 UG-51/U Square Cover Flange to N Female Waveguide to Coax Adapter Operating From 7.05 GHz to 10 GHz, H Band

### Waveguide to Coax Adapters Technical Data Sheet

PEWCA1012

#### Features

- H Band
- 7.05 to 10 GHz Frequency Range
- WR-112 Waveguide Interface
- Standard UG-51/U Square Cover Flange
- N Female RF Interface

#### Applications

- Test Benches
- Radar
- Satellite
- Microwave Radio Systems
- Military and Space
- Communication Systems

#### Description

The PEWCA1012 is a waveguide to coaxial adapter operating in the H Band with a 7.05 to 10 GHz frequency range. This adapter offers a WR-112 waveguide interface size using a standard Square Cover Flange. The PEWCA1012 is constructed of Copper Alloy and painted to ensure durability. The coaxial connector offered by this adapter uses a N Female Nickel Plated Brass Connector.

#### Configuration

Waveguide Size	WR-112
Flange	UG-51/U Square Cover
RF Connector	N Female
Impedance	50 Ohms
Body Geometry	Right Angle

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	7.05		10	GHz
VSWR			1.25:1	

#### Mechanical Specifications

Weight	0.513 lbs [232.69 g]
<b>RF Connector</b>	
Connector Type	N Female
Body Material and Plating	Brass, Nickel
<b>Waveguide Interface</b>	
Waveguide Type	WR-112
Flange Type	Square Cover
Flange Designation	UG-51/U
Body Material and Plating	Copper Alloy, Paint

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-112 UG-51/U Square Cover Flange to N Female Waveguide to Coax Adapter Operating From 7.05 GHz to 10 GHz, H Band PEWCA1012](#)



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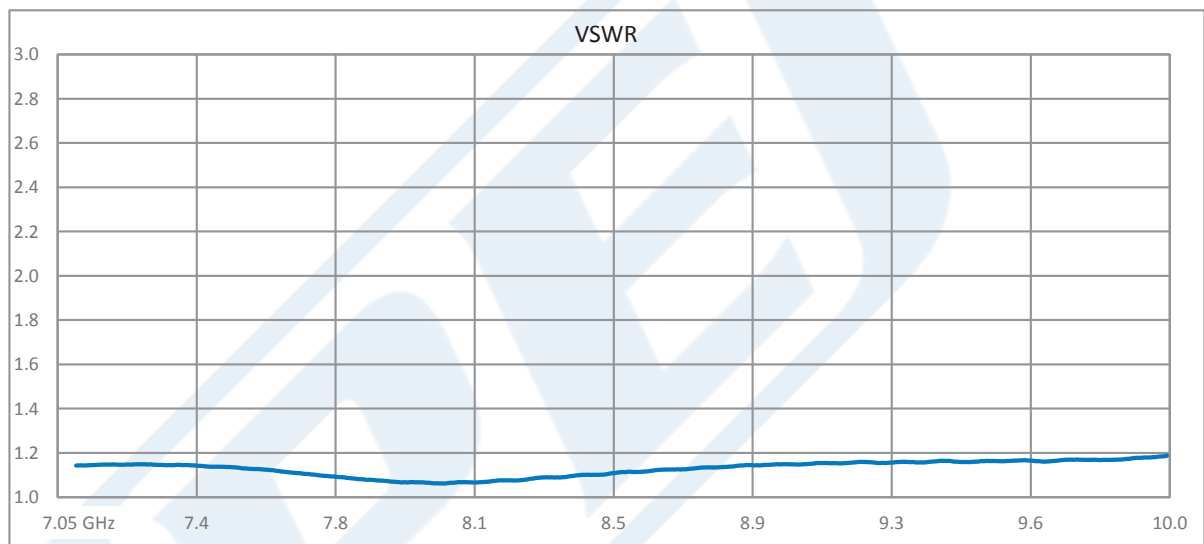
**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

- Values at +25 °C, sea level unless stated otherwise

#### Typical Performance Data



WR-112 UG-51/U Square Cover Flange to N Female Waveguide to Coax Adapter Operating From 7.05 GHz to 10 GHz, H Band 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.

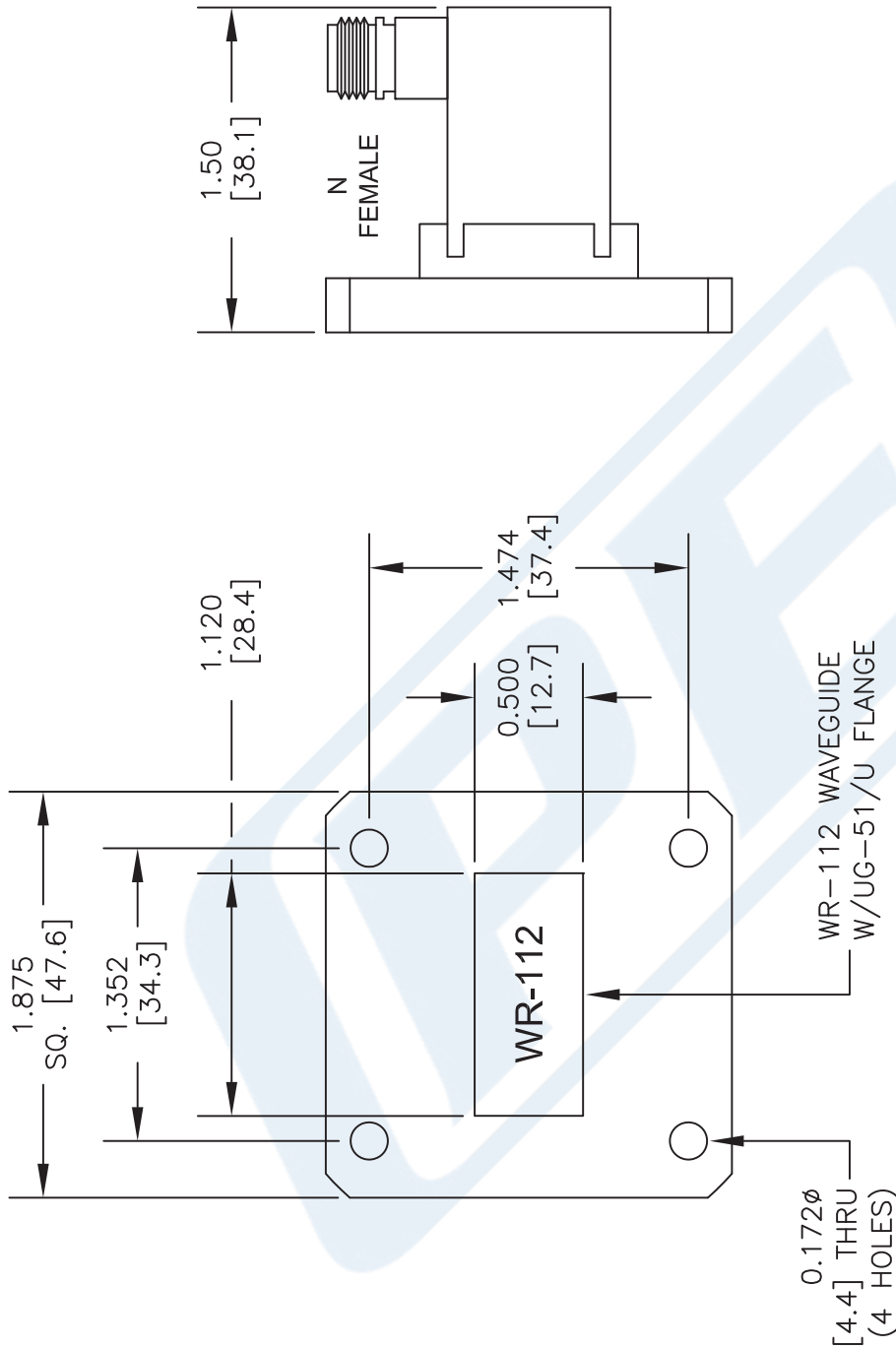
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-112 UG-51/U Square Cover Flange to N Female Waveguide to Coax Adapter Operating From 7.05 GHz to 10 GHz, H Band PEWCA1012](#)

URL: <https://www.pasternack.com/wr-112-ug51-square-n-female-waveguide-coax-adapter-10-ghz-pewca1012-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.

# PEWCA1012 CAD Drawing

WR-112 UG-51/U Square Cover Flange to N Female Waveguide to  
Coax Adapter Operating From 7.05 GHz to 10 GHz, H Band



UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES.  
DECIMALS ANGLES  
.X ±.030 ±1/2 DEG.  
.XX ±.015 FRACTIONS  
.XXX ±.005 ±1/32

\* THESE DIMENSIONS AND TOLERANCES  
SUPERSEDE NOTE #1 ON TITLE BLOCK.

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

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DWG TITLE

**PEWCA1012**

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].

FSCM NO. 53919

CAD FILE 092216

SCALE N/A

SIZE A

2233