



## WR-90 UG-39/U Square Cover Flange to N Female Waveguide to Coax Adapter Operating from 8.2 GHz to 12.4 GHz

### Waveguide to Coax Adapters Technical Data Sheet

PEWCA1008

#### Features

- X Band
- 8.2 to 12.4 GHz Frequency Range
- WR-90 Waveguide Interface
- Standard UG-39/U Square Cover Flange
- N Female RF Interface

#### Applications

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

#### Description

The PEWCA1008 is a waveguide to coaxial adapter operating in the X Band with a 8.2 to 12.4 GHz frequency range. This adapter offers a WR-90 waveguide interface size using a standard UG-39/U Square Cover Flange. The PEWCA1008 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-90
Flange	UG-39/U Square Cover
RF Connector	N Female
Impedance	50 Ohms
Body Geometry	Right Angle

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	8.2		12.4	GHz
VSWR		1.25:1		

#### Mechanical Specifications

Weight	0.3195 lbs [144.92 g]
<b>RF Connector</b>	
Connector Type	N Female
Body Material and Plating	Brass, Nickel
<b>Waveguide Interface</b>	
Waveguide Type	WR-90
Flange Type	Square Cover
Flange Designation	UG-39/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-90 UG-39/U Square Cover Flange to N Female Waveguide to Coax Adapter Operating from 8.2 GHz to 12.4 GHz PEWCA1008](#)



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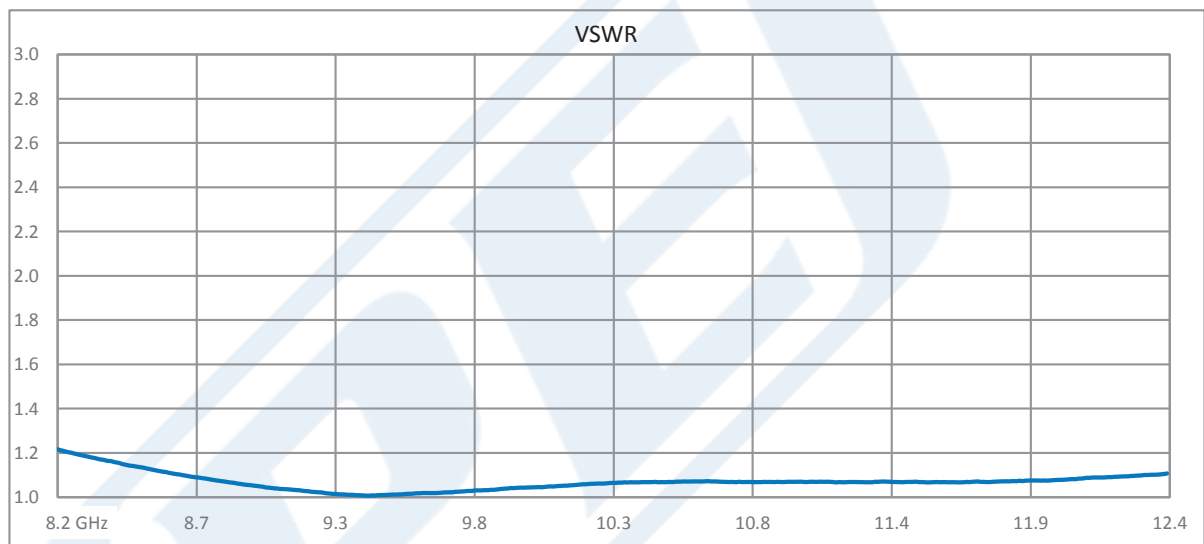
**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

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

#### Typical Performance Data



WR-90 UG-39/U Square Cover Flange to N Female Waveguide to Coax Adapter Operating from 8.2 GHz to 12.4 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.

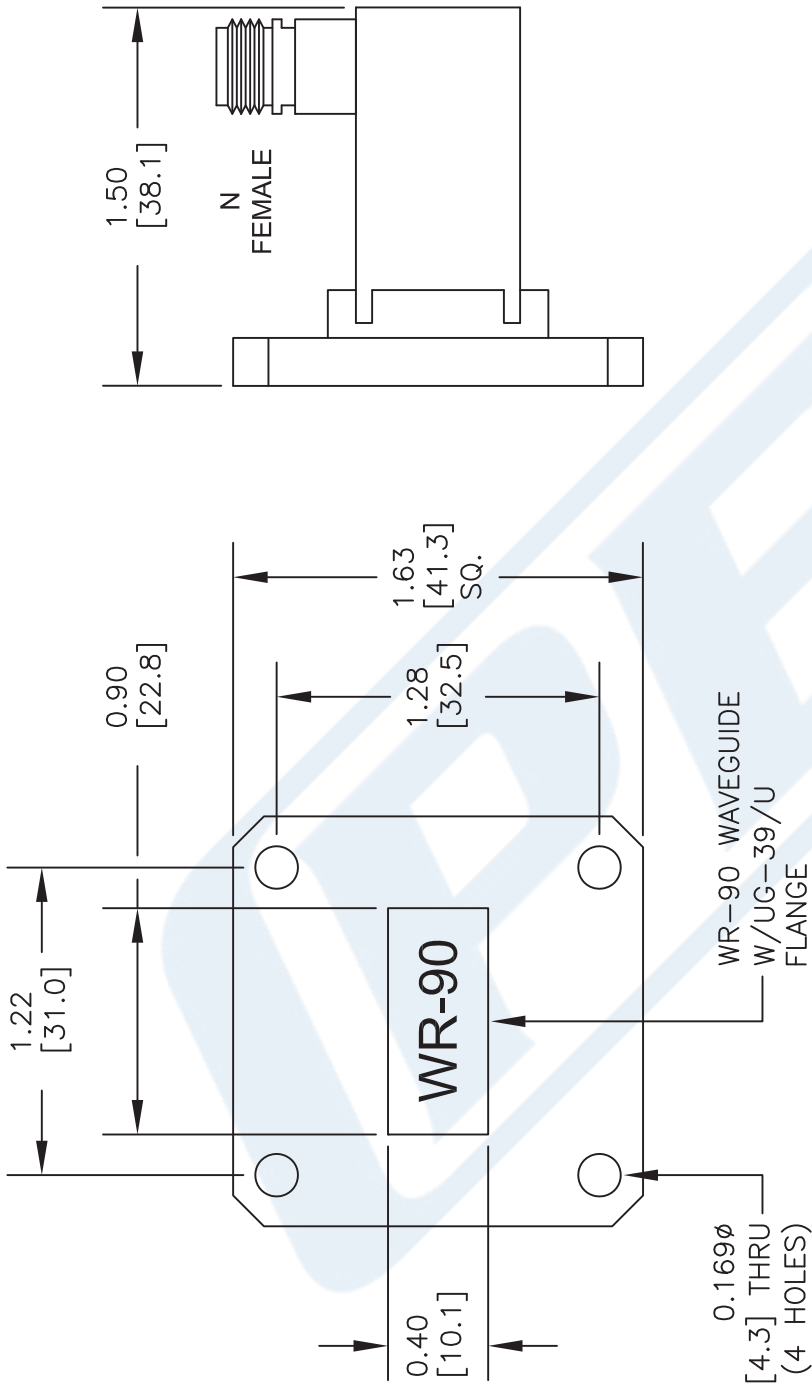
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URL: <https://www.pasternack.com/wr-90-ug39-square-n-female-waveguide-coax-adapter-12.4-ghz-pewca1008-p.aspx>

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.

# PEWCA1008 CAD Drawing

WR-90 UG-39/U Square Cover Flange to N Female Waveguide  
to Coax Adapter Operating from 8.2 GHz to 12.4 GHz



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

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



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DWG TITLE

**PEWCA1008**

FSCM NO. 53919

CAD FILE 092616

SCALE N/A

SIZE A

2233

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].