



## WR-112 CPR-112G Grooved Flange to N Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz

### Waveguide to Coax Adapters Technical Data Sheet

PEWCA1013

#### Features

- H Band
- 7.05 to 10 GHz Frequency Range
- WR-112 Waveguide
- Grooved CPR-112G Flange
- N Female

#### Applications

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

#### Description

The PEWCA1013 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 Grooved CPR-112G Flange. The PEWCA1013 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	CPR-112G
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 0.4603 lbs [208.79 g]

##### RF Connector

Connector Type N Female  
Body Material and Plating Brass, Nickel

##### Waveguide Interface

Waveguide Type WR-112  
Flange Type CPR-112G  
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 CPR-112G Grooved Flange to N Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz PEWCA1013](#)



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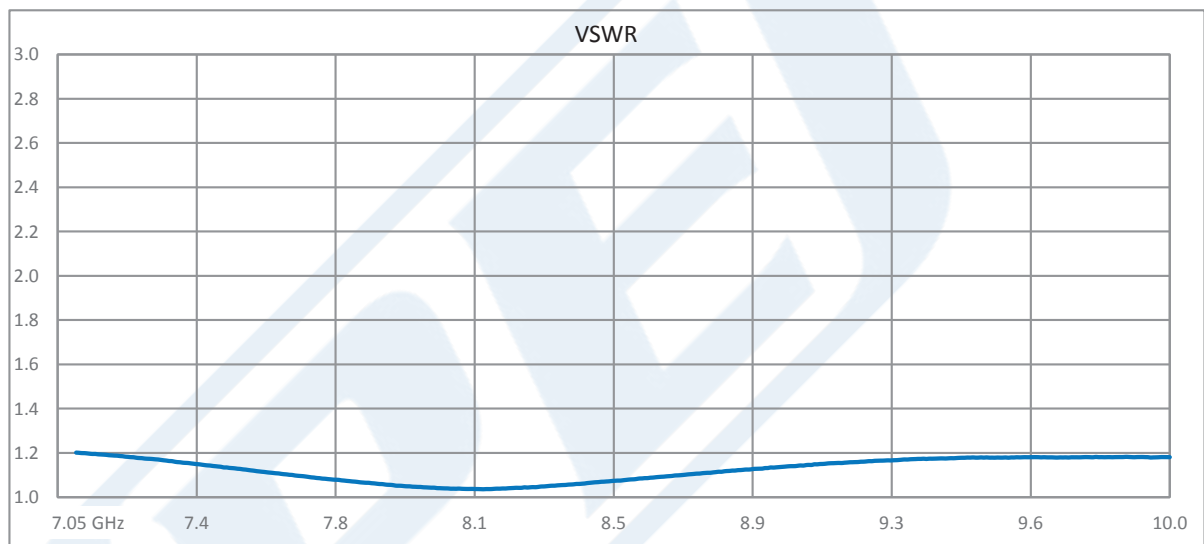
**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

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

#### Typical Performance Data



WR-112 CPR-112G Grooved Flange to N Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 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.

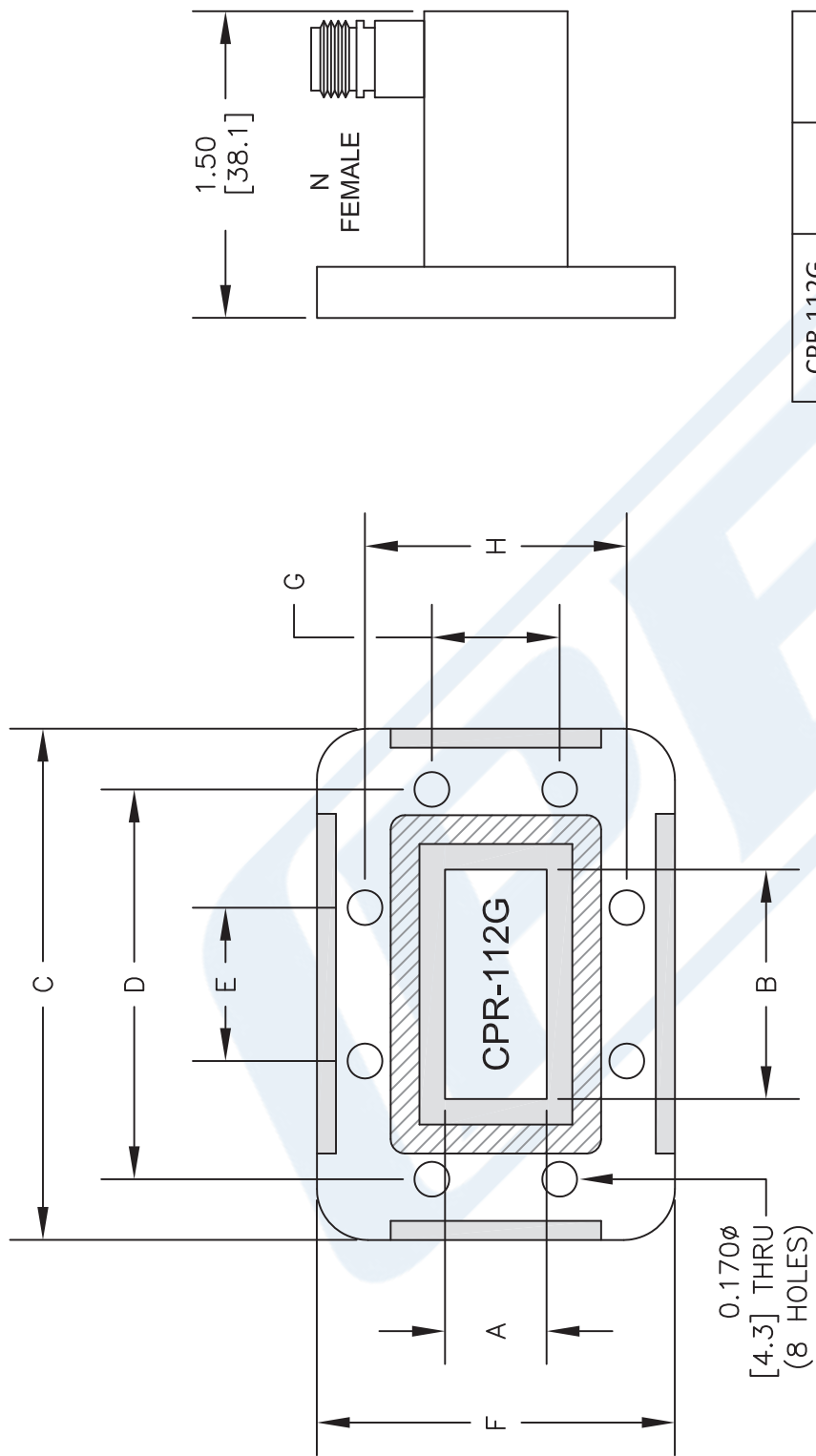
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URL: <https://www.pasternack.com/wr-112-cpr-112g-grooved-n-female-waveguide-coax-adapter-10-ghz-pewca1013-p.aspx>

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.

# PEWCA1013 CAD Drawing

WR-112 CPR-112G Grooved Flange to N Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz



CPR 112G Dimension	Inches	mm
A	0.497	12.62
B	1.122	28.50
C	2.500	63.50
D	1.906	48.41
E	0.750	19.05
F	1.750	44.45
G	0.625	15.88
H	1.280	32.51

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.

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  
**PEWCA1013**

FSCM NO. 53919

CAD FILE 092613

SCALE N/A

SIZE A

2233

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