



## WR-284 CPR-284G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 2.6 GHz to 3.95 GHz, S Band

### Waveguide to Coax Adapters Technical Data Sheet

PE9842

#### Features

- S Band, 2.6 to 3.95 GHz Frequency Range
- WR-284 Waveguide Interface with CPR-284G Flange
- N Female Coaxial Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

#### Description

The PE9842 is a waveguide to coaxial adapter operating in the S band with a 2.6 to 3.95 GHz frequency range. This adapter offers a WR-284 waveguide interface size coupled with a precision tolerance CPR-284G flange. The PE9842 is constructed of aluminum to ensure durability and repeatable RF performance. The coaxial connector offered by this adapter uses a N type Female connector and the package is REACH and RoHS compliant.

#### Configuration

Waveguide Size	WR-284
Flange	CPR-284G
RF Connector	N Female
Impedance	50 Ohms
Body Geometry	Right Angle

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2.6		3.95	GHz
VSWR			1.3:1	
Input Power (Peak)			400	Watts

#### Mechanical Specifications

<b>Size</b>	
Length	4.5 in [114.3 mm]
Width	3.4 in [86.36 mm]
Height	2.5 in [63.5 mm]
Weight	0.776 lbs [351.99 g]

#### RF Connector

Connector Type	N Female
Body Material and Plating	Stainless Steel

#### Waveguide Interface

Waveguide Type	WR-284
Flange Type	CPR-284G
Body Material and Plating	Aluminum

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-284 CPR-284G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 2.6 GHz to 3.95 GHz, S Band PE9842](#)



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**Environmental Specifications**

**Temperature**

Operating Range

-40 to +85 deg C

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

RoHS Compliant

REACH Compliant

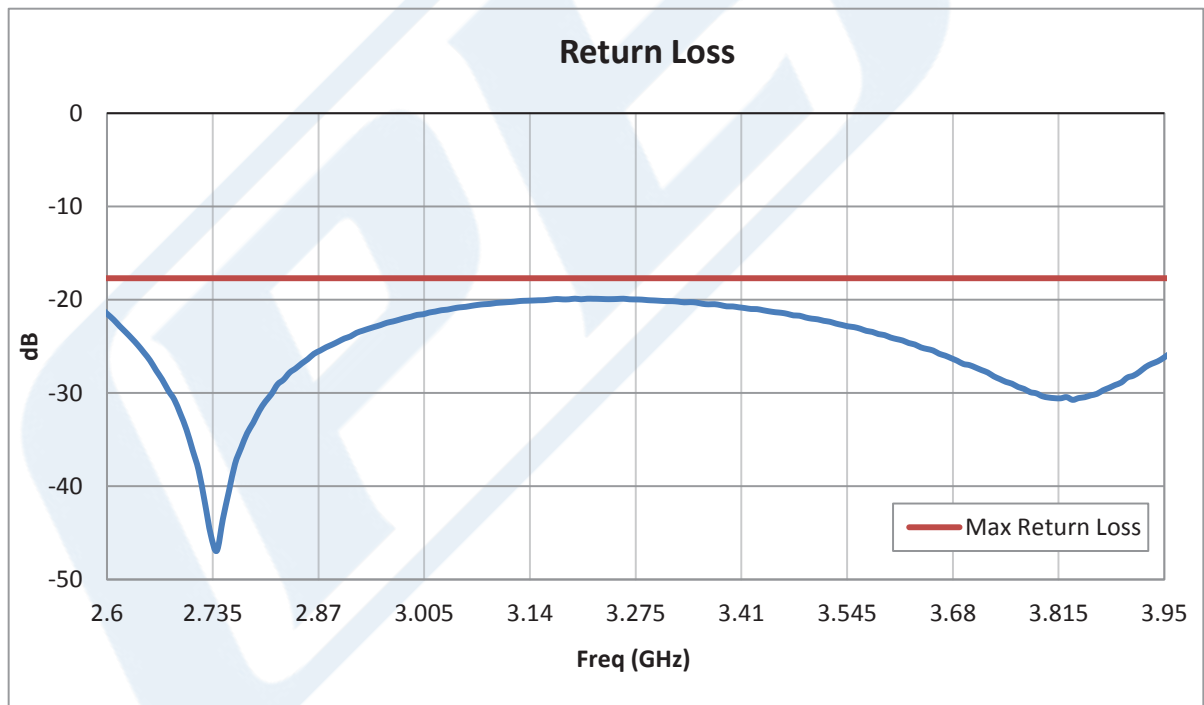
12/17/2015

**Plotted and Other Data**

Notes:

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

**Typical Performance Data**



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WR-284 CPR-284G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 2.6 GHz to 3.95 GHz, S Band 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.

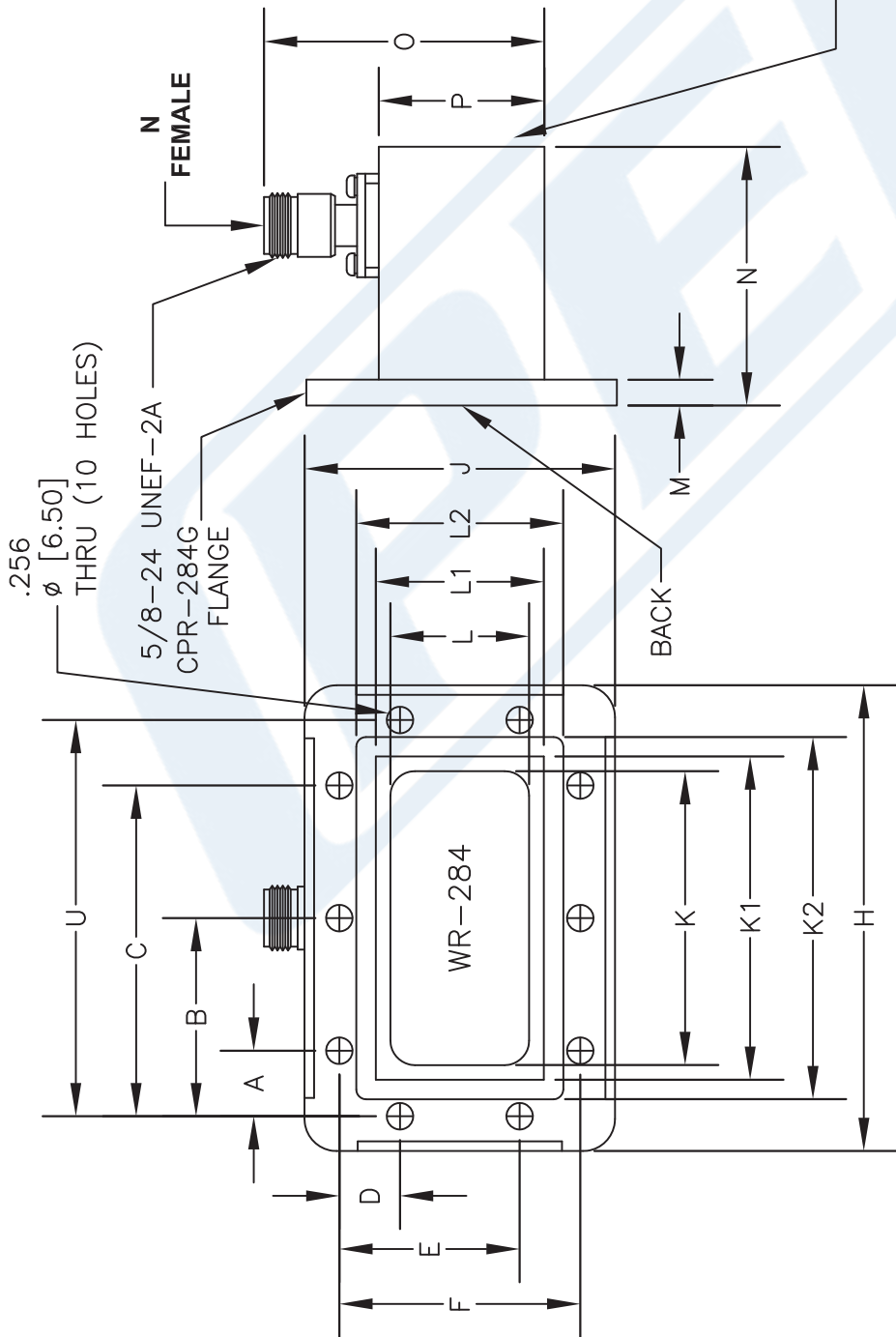
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-284 CPR-284G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 2.6 GHz to 3.95 GHz, S Band PE9842](http://www.pasternack.com/waveguide-to-n-female-pe9842-p.aspx)

URL: <http://www.pasternack.com/waveguide-to-n-female-pe9842-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.

# PE9842 CAD Drawing

WR-284 CPR-284G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 2.6 GHz to 3.95 GHz, S Band



**STANDARD TOLERANCES**  
DECIMAL  
±0.012

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

LABEL:  
PASTERNAK  
PE9842 CPR-284G  
2.60 ~ 3.95 GHz

CPR-284G		Inches	mm
Dimension			
A	0.633	16.08	
B	1.913	48.59	
C	3.195	81.15	
U	3.828	97.23	
D	0.585	14.86	
E	1.741	44.22	
F	2.327	59.11	
J	2.999	76.17	
H	4.499	114.27	
K	2.840	72.14	
K1	3.124	79.35	
K2	3.500	88.90	
L	1.339	34.01	
L1	1.623	41.22	
L2	2.001	50.83	

M	0.250	6.35
N	2.500	63.50
O	2.710	68.83
P	1.599	40.61

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  
**PE9842**

FSCM NO. 53919

CAD FILE 040616

SCALE N/A

SIZE A

3045

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

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