

WR-12 UG-387/U Round Cover Flange to
1.0mm Female Waveguide to Coax Adapter
Operating from 60 GHz to 90 GHz



PE-W12CA001A

Features

- E Band, 60 to 90 GHz Frequency Range
- WR-12 Waveguide
- UG-387/U Round Cover Flange
- 1.0 mm Female RF Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

Description

The PE-W12CA001A is a waveguide to coaxial adapter operating in the E Band with a 60 to 90 GHz frequency range. This adapter offers a WR-12 waveguide interface size coupled with a precision tolerance UG-387/U Round Cover flange. The PE-W12CA001A is constructed of aluminum and plated in gold to ensure durability and repeatable RF performance. The coaxial connector offered by this adapter uses a 1 mm Female Connector endorsed by the International Electrotechnical Commission (IEC).

Configuration

Waveguide Size	WR-12
Flange	UG-387/U Round Cover
RF Connector	1.0mm Female
Impedance	50 Ohms
Body Geometry	Right Angle

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	60		90	GHz
VSWR		1.4:1		
Insertion Loss		1		dB
Input Power (CW)			10	Watts

Mechanical Specifications

Size	
Length	1 in [25.4 mm]
Width	0.75 in [19.05 mm]
Height	0.761 in [19.33 mm]
Weight	0.003 lbs [1.36 g]

RF Connector	
Connector Type	1.0mm Female

Waveguide Interface	
Waveguide Type	WR-12
Flange Type	Round Cover
Flange Designation	UG-387/U
Body Material and Plating	Aluminum, Gold

Environmental Specifications

Temperature	
Operating Range	-15 to +60 deg C

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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-12 UG-387/U Round Cover Flange to 1.0mm Female Waveguide to Coax Adapter Operating from 60 GHz to 90 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.

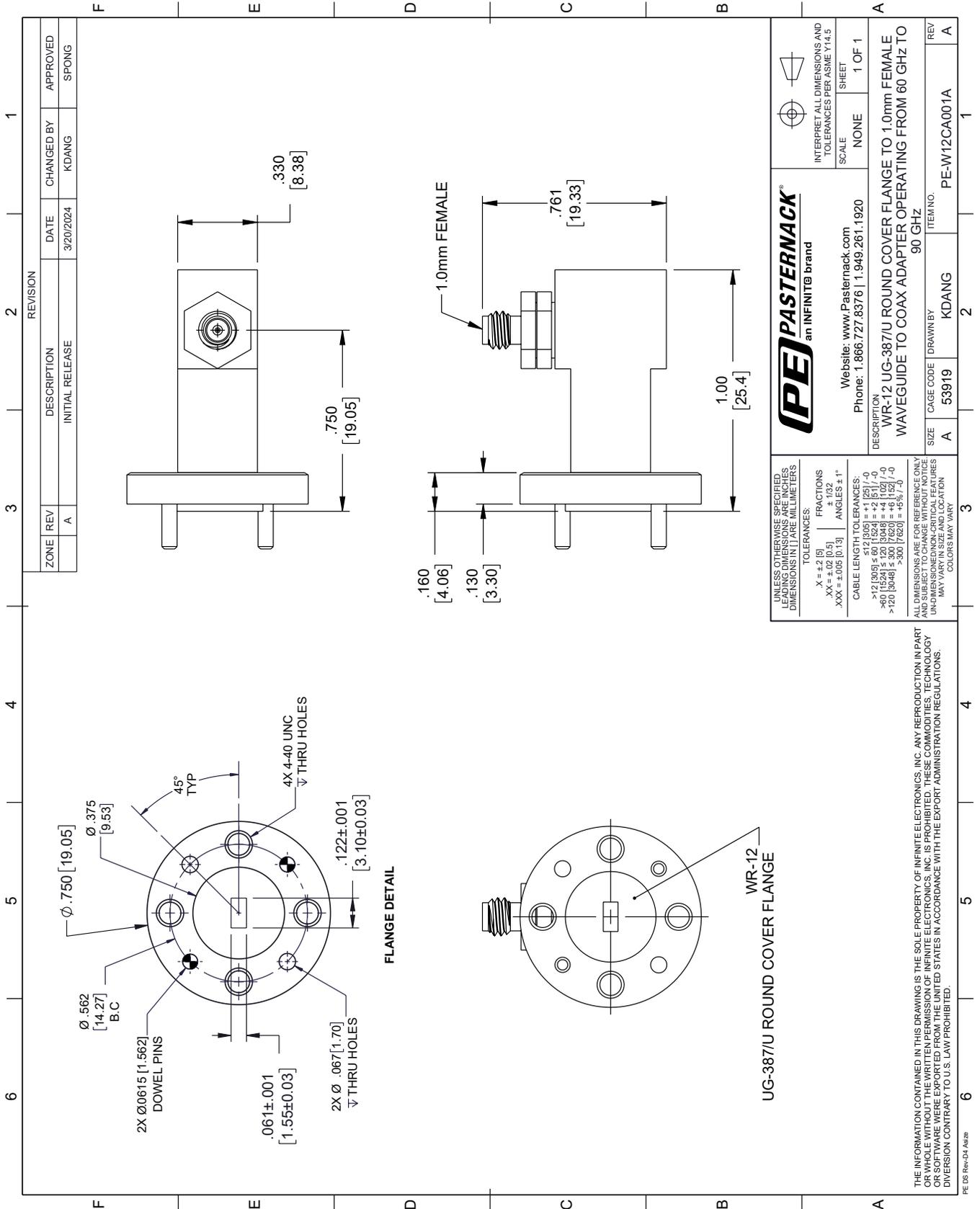
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-12 UG-387/U Round Cover Flange to 1.0mm Female Waveguide to Coax Adapter Operating from 60 GHz to 90 GHz PE-W12CA001A](#)

URL: <https://www.pasternack.com/wr12-ug387-round-flange-to-1.0mm-female-waveguide-coax-adapter-90ghz-pe-w12ca001a-p.aspx>

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PE-W12CA001A CAD Drawing

WR-12 UG-387/U Round Cover Flange to 1.0mm Female Waveguide to Coax Adapter Operating from 60 GHz to 90 GHz



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION	INITIAL RELEASE	
A				SPONG

PE PASTERNAK an INFINITI® brand		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		SCALE: NONE	
.X = +.2 [5]		SHEET: 1 OF 1	
.XX = ±.02 [0.5]			
.XXX = ±.005 [0.13]			
ANGLES ± 1°			
CABLE LENGTH TOLERANCES:			
>12 [305] ≤ 60 [1524] = ±.125 [-0]			
>60 [1524] ≤ 120 [3048] = ±.102 [-0]			
>120 [3048] ≤ 300 [7620] = ±.075 [-0]			
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.			
DESCRIPTION: WR-12 UG-387/U ROUND COVER FLANGE TO 1.0mm FEMALE WAVEGUIDE TO COAX ADAPTER OPERATING FROM 60 GHz TO 90 GHz		ITEM NO. PE-W12CA001A	
SIZE: A	CAGE CODE: 53919	DRAWN BY: KDANG	REV: A

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