



# WR-42 UBR220 Flange to 2.92mm Female Waveguide to Coax Adapter Operating from 17.6 GHz to 26.7 GHz in Brass

## Waveguide to Coax Adapters Technical Data Sheet

PEWCA1101

### Features

- 17.6 to 26.7 GHz Frequency Range
- WR-42 Waveguide Interface
- UBR220 Flange
- 2.92mm Female RF Interface
- Comprehensive waveguide offering also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

### Applications

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

### Description

The PEWCA1101 is a right angle waveguide to coaxial adapter operating at a frequency range of 17.6 GHz to 26.7 GHz. This adapter offers a WR-42 waveguide interface size coupled with a precision tolerance UBR220 flange. The PEWCA1101 is constructed of brass and a gold finish to ensure durability. The coaxial connector offered by this adapter uses an 2.92mm Female connector.

### Configuration

Waveguide Size	WR-42
Flange	UBR220
RF Connector	2.92mm Female
Body Geometry	Right Angle

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	17.6		26.7	GHz
VSWR			1.25:1	
Insertion Loss			0.3	dB
Input Power (CW)			20	Watts

### Mechanical Specifications

<b>Size</b>	
Length	1.18 in [29.97 mm]
Width	0.88 in [22.35 mm]
Height	0.88 in [22.35 mm]

<b>RF Connector</b>	
Connector Type	2.92mm Female

<b>Waveguide Interface</b>	
Waveguide Type	WR-42

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-42 UBR220 Flange to 2.92mm Female Waveguide to Coax Adapter Operating from 17.6 GHz to 26.7 GHz in Brass PEWCA1101](#)



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Flange Type	UBR220
Body Material and Plating	Brass, Gold

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

**Plotted and Other Data**

Notes:

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

WR-42 UBR220 Flange to 2.92mm Female Waveguide to Coax Adapter Operating from 17.6 GHz to 26.7 GHz in Brass 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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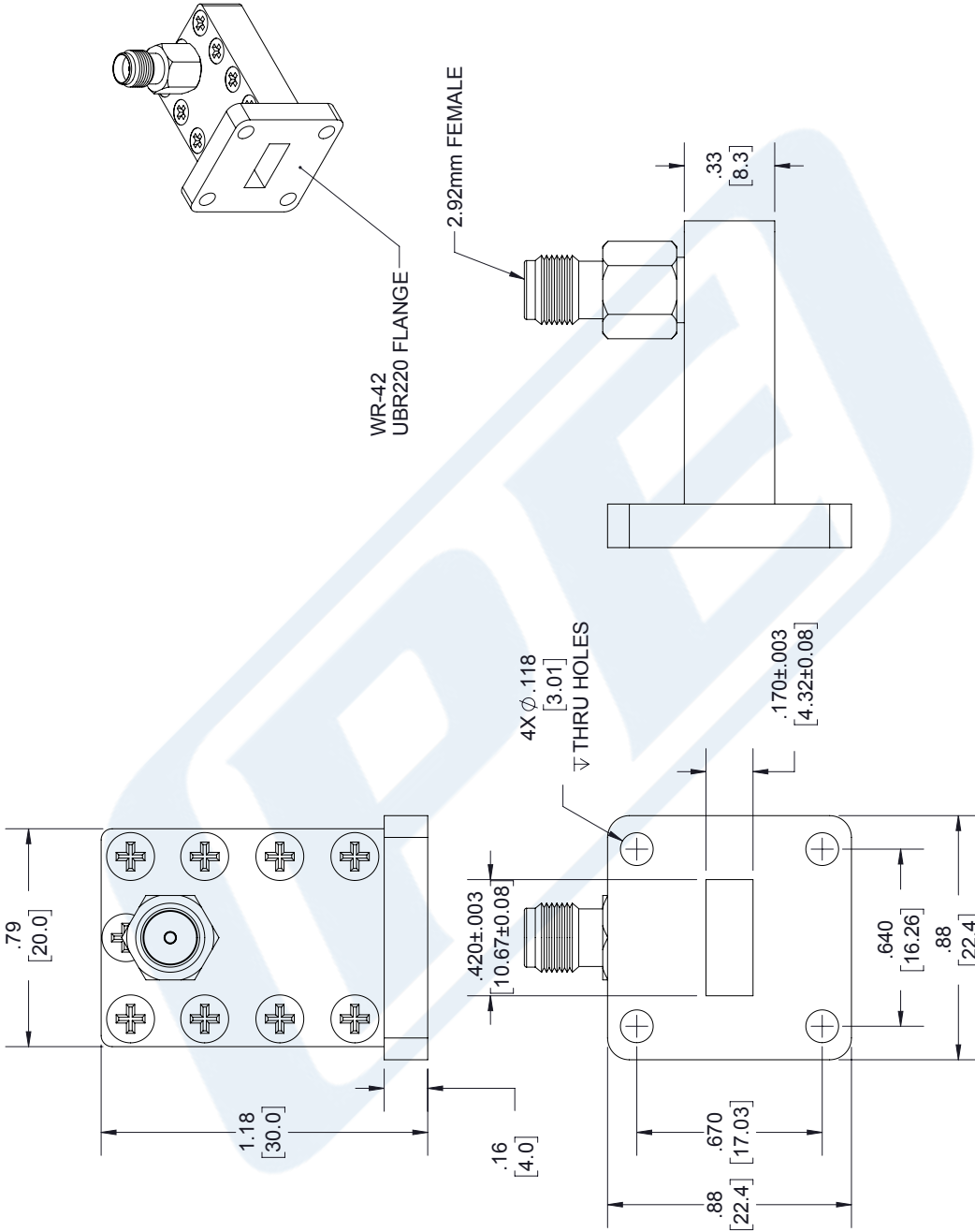
URL: <https://www.pasternack.com/wr42-ubr220-flange-to-2.92mm-female-waveguide-coax-adapter-26.7-ghz-pewca1101-p.aspx>

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.

# PEWCA1101 CAD Drawing

WR-42 UBR220 Flange to 2.92mm Female Waveguide to Coax Adapter Operating from 17.6 GHz to 26.7 GHz in Brass

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	05/11/2020
		APPROVED
		SPONG



WR-42  
UBR220 FLANGE

2.92mm FEMALE

4X Ø.118  
[3.01]

THRU HOLES

.170 ± .003  
[4.32 ± 0.08]

.420 ± .003  
[10.67 ± 0.08]

.16  
[4.0]

.670  
[17.03]

.640  
[16.26]

.88  
[22.4]

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ± .2	[5.08]	FRACTIONS
.XX = ± .02	[.51]	± 1/32
.XXX = ± .005	[.13]	ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12	[305]	= +1 [25] / -0
12 [305] < L ≤ 60	[1524]	= +2 [51] / -0
60 [1524] < L ≤ 120	[3048]	= +4 [102] / -0
120 [3048] < L ≤ 300	[7620]	= +6 [152] / -0
300 [7620] < L ≤ ∞		= +5% / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A

ITEM NO PEWCA1101

REV A

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