



WR-90 UBR100 Flange to SMA Female Waveguide to Coax Adapter Operating from 8.2 GHz to 12.4 GHz in Brass

Waveguide to Coax Adapters Technical Data Sheet

PEWCA1093

Features

- 8.20 to 12.4 GHz Frequency Range
- WR-90 Waveguide Interface
- UBR100 Flange
- SMA 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 PEWCA1093 is a right angle waveguide to coaxial adapter operating at a frequency range of 8.20 GHz to 12.4 GHz. This adapter offers a WR-90 waveguide interface size coupled with a precision tolerance UBR100 flange. The PEWCA1093 is constructed of brass and painted gray to ensure durability. The coaxial connector offered by this adapter uses an SMA Female connector.

Configuration

Waveguide Size	WR-90
Flange	UBR100
RF Connector	SMA Female
Body Geometry	Right Angle

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	8.2		12.4	GHz
VSWR			1.25:1	
Insertion Loss			0.2	dB
Input Power (CW)			50	Watts

Mechanical Specifications

Size	
Length	1.29 in [32.77 mm]
Width	1.63 in [41.4 mm]
Height	1.63 in [41.4 mm]
RF Connector	
Connector Type	SMA Female
Waveguide Interface	
Waveguide Type	WR-90

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-90 UBR100 Flange to SMA Female Waveguide to Coax Adapter Operating from 8.2 GHz to 12.4 GHz in Brass PEWCA1093](#)



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Flange Type
Body Material and Plating

UBR100
Brass

Environmental Specifications

Temperature

Operating Range

-40 to +70 deg C

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

Plotted and Other Data

Notes:

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

WR-90 UBR100 Flange to SMA Female Waveguide to Coax Adapter Operating from 8.2 GHz to 12.4 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.

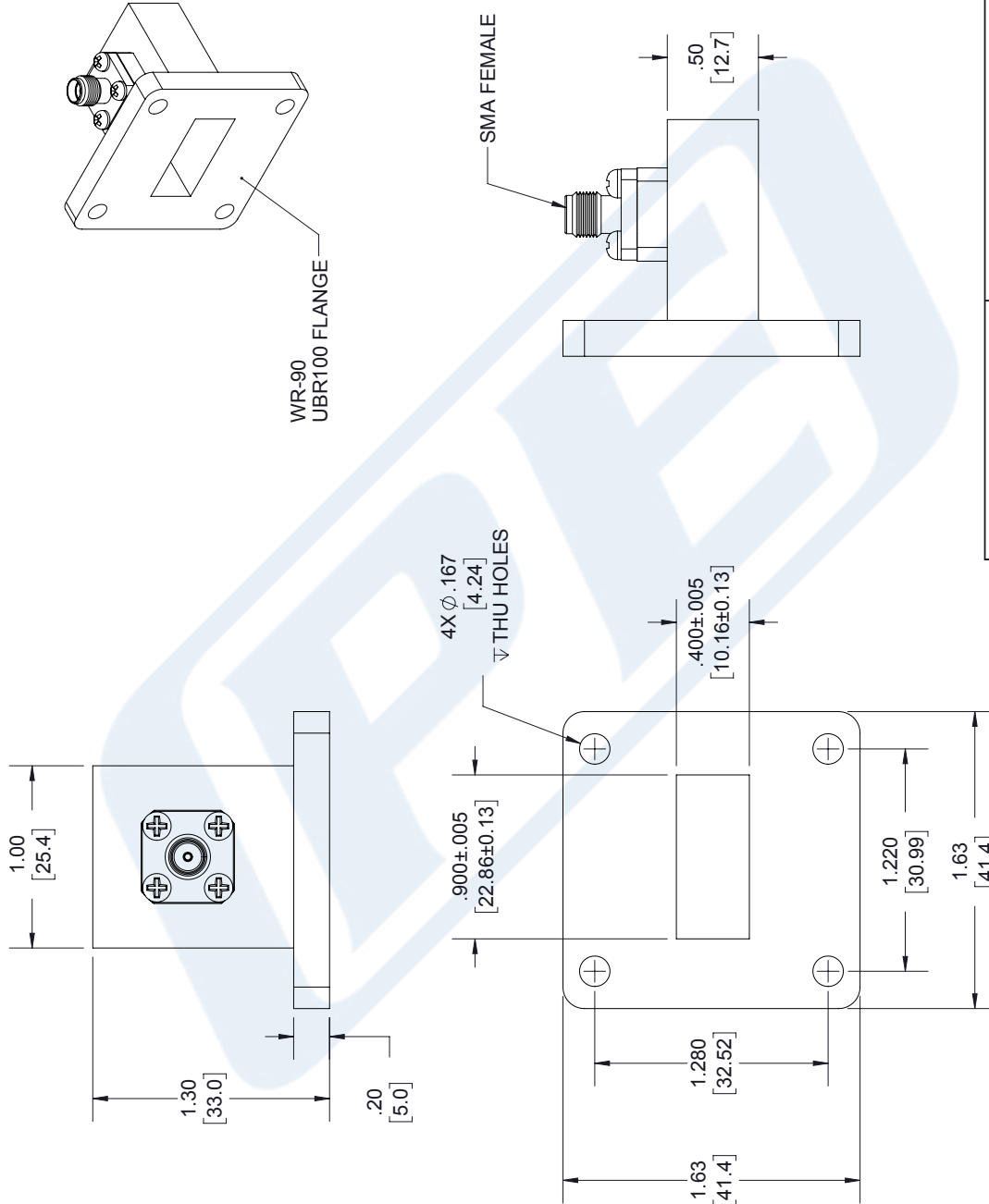
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URL: <https://www.pasternack.com/wr90-ubr100-flange-to-sma-female-waveguide-coax-adapter-12.4-ghz-pewca1093-p.aspx>

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.

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	05/06/2020	SPONG

PASTERNAK
PEWCA1093
D/C: YYWW

TOLERANCES:		
$X \pm \pm 2$	[5.08]	FRACTIONS
$XX \pm \pm 02$	[.51]	$\pm 1/32$
$XXX \pm \pm .005$	[.13]	ANGLES $\pm 1^\circ$
CABLE LENGTH (L) TOLERANCES:		
$L \leq 12$ [305] = +1 [25] / -0		
12 [305] < $L \leq 60$ [1524] = +2 [51] / -0		
0 [1524] < $L \leq 120$ [3048] = +4 [102] / -0		
0 [3048] < $L \leq 300$ [7620] = +6 [152] / -0		
300 [7620] < $L =$ +5% / -0		

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SHEET	1	OF	1
SCALE	N/A		

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