



# WR-51 UBR180 Flange to SMA Female Waveguide to Coax Adapter Operating from 14.5 GHz to 22 GHz in Brass

### Waveguide to Coax Adapters Technical Data Sheet

PEWCA1099

#### **Features**

- 14.5 to 22 GHz Frequency Range
- WR-51 Waveguide Interface
- UBR180 Flange
- SMA Female RF Interface

 Comprenhensive 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 PEWCA1099 is a right angle waveguide to coaxial adapter operating at a frequency range of 14.5 GHz to 22 GHz. This adapter offers a WR-51 waveguide interface size coupled with a precision tolerance UBR180 flange. The PEWCA1099 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 Flange RF Connector Body Geometry WR-51 UBR180 SMA Female Right Angle

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	14.5		22	GHz
VSWR			1.25:1	
Insertion Loss			0.3	dB
Input Power (CW)			50	Watts

#### **Mechanical Specifications**

Size

 Length
 1.06 in [26.92 mm]

 Width
 1.19 in [30.23 mm]

 Height
 1.19 in [30.23 mm]

**RF Connector** 

Connector Type SMA Female

**Waveguide Interface** 

Waveguide Type WR-51

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-51 UBR180 Flange to SMA Female Waveguide to Coax Adapter Operating from 14.5 GHz to 22 GHz in Brass PEWCA1099

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com





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Flange Type Body Material and Plating UBR180 Brass

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

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

WR-51 UBR180 Flange to SMA Female Waveguide to Coax Adapter Operating from 14.5 GHz to 22 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/wr51-ubr180-flange-to-sma-female-waveguide-coax-adapter-22-ghz-pewca1099-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.

## **PEWCA1099 CAD Drawing**

WR-51 UBR180 Flange to SMA Female Waveguide to Coax Adapter Operating from 14.5 GHz to 22 GHz in Brass

