



WR-42 UG-597/U Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 18 GHz to 26.5 GHz

Waveguide to Coax Adapters Technical Data Sheet

PEWCA1022

Features

- K Band 18 to 26.5 GHz Frequency Range
- WR-42 Waveguide Interface with UG-597/U Square Cover Flange
- SMA Female RF Interface
- Comprehensive waveguide offerings 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 PEWCA1022 is a waveguide to coaxial adapter operating in the K Band with a 18 to 26.5 GHz frequency range. This adapter offers a WR-42 waveguide interface size coupled with a precision tolerance UG-597/U Square Cover flange. The PEWCA1022 is constructed of aluminum to ensure durability and repeatable RF performance. The coaxial connection offered by this adapter uses an SMA Female connector.

Configuration

Waveguide Size	WR-42
Flange	UG-597/U Square Cover
RF Connector	SMA Female
Body Geometry	Right Angle

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	18		26.5	GHz
VSWR			1.3:1	
Insertion Loss		0.3		dB

Mechanical Specifications

RF Connector	
Connector Type	SMA Female
Waveguide Interface	
Waveguide Type	WR-42
Flange Type	Square Cover
Flange Designation	UG-597/U
Body Material and Plating	Aluminum, Chem Film

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-42 UG-597/U Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 18 GHz to 26.5 GHz PEWCA1022](#)



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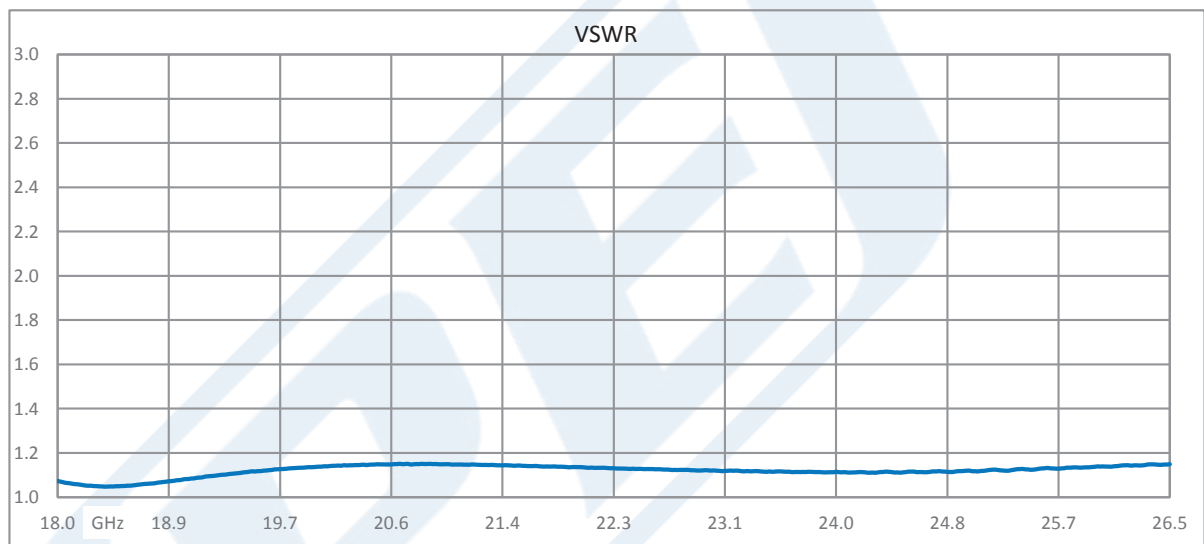
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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

Typical Performance Data



WR-42 UG-597/U Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 18 GHz to 26.5 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.

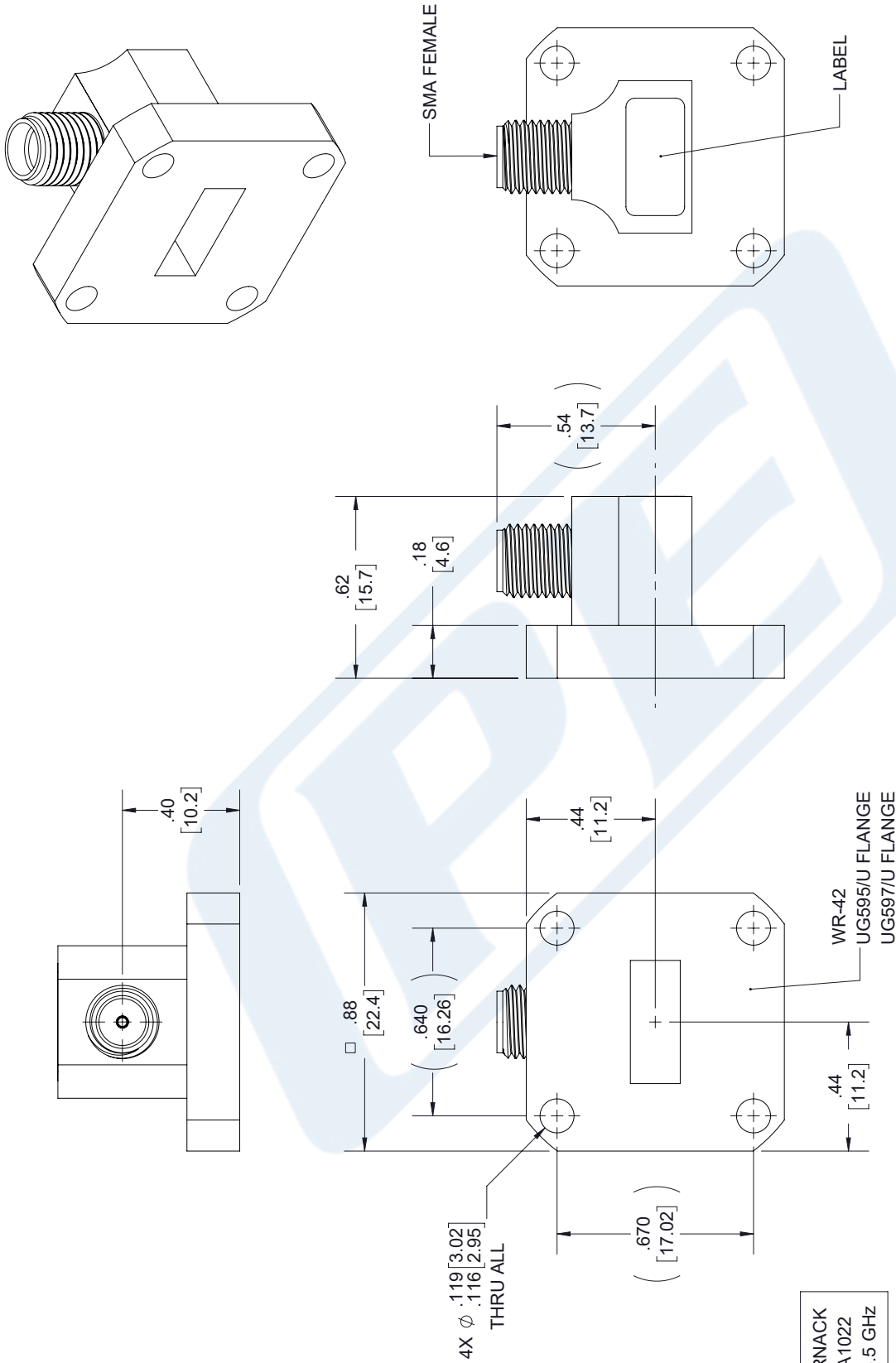
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URL: <https://www.pasternack.com/wr42-ug597-square-flange-to-sma-female-waveguide-coax-adapter-26.5-ghz-pewca1022-p.aspx>

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.

PEWCA1022 CAD Drawing

WR-42 UG-597/U Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 18 GHz to 26.5 GHz



LABEL:

PASTERNAK
PEWCA1022
18.0 - 26.5 GHz

STANDARD TOLERANCES	
.X	±0.2
.XX	±0.02
.XXX	±0.010

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PEWCA1022

CAGE CODE 53919

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].

CAD FILE 020818

SCALE N/A

SIZE A

7361