



WR-51 Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating From 15 GHz to 22 GHz, N Band

Waveguide to Coax Adapters Technical Data Sheet

PEWCA1002

Features

- N Band
- 15 to 22 GHz Frequency Range
- WR-51 Waveguide
- Square Cover Flange
- SMA Female RF Interface

Applications

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

Description

The PEWCA1002 is a waveguide to coaxial adapter operating in the N Band with a 15 to 22 GHz frequency range. This adapter offers a WR-51 waveguide interface size using a standard Square Cover Flange. The PEWCA1002 is constructed of Copper Alloy and painted to ensure durability. The coaxial connector offered by this adapter uses a SMA Female Nickel Plated Brass Connector.

Configuration

Waveguide Size	WR-51
Flange	Square Cover
RF Connector	SMA Female
Impedance	50 Ohms
Body Geometry	Right Angle

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	15		22	GHz
VSWR		1.25:1		

Mechanical Specifications

Weight 0.167 lbs [75.75 g]

RF Connector

Connector Type SMA Female
Body Material and Plating Brass, Nickel

Waveguide Interface

Waveguide Type WR-51
Flange Type Square Cover
Body Material and Plating Copper Alloy, Paint

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-51 Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating From 15 GHz to 22 GHz, N Band PEWCA1002](#)



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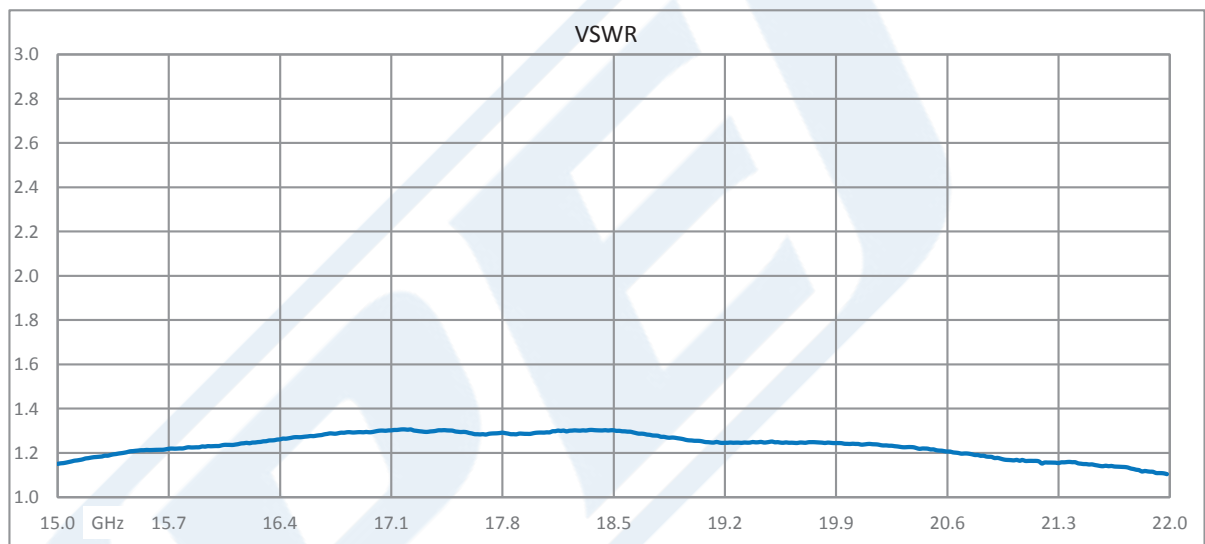
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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

Typical Performance Data



WR-51 Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating From 15 GHz to 22 GHz, N Band 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.

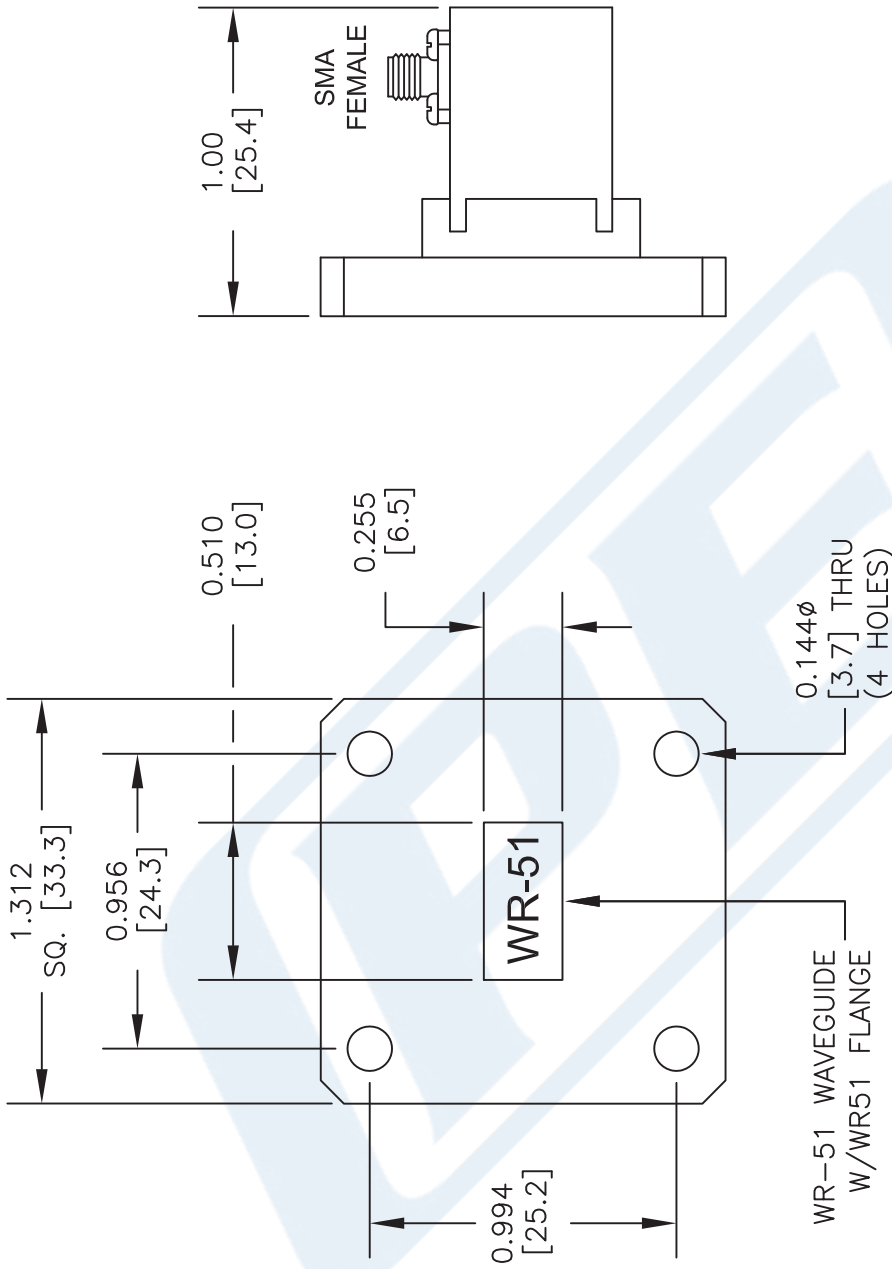
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URL: <https://www.pasternack.com/wr-51-square-sma-female-waveguide-coax-adapter-22-ghz-pewca1002-p.aspx>

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.

PEWCA1002 CAD Drawing

WR-51 Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating From 15 GHz to 22 GHz, N Band



UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.
DECIMALS ANGLES
.X ±.030 ±1/2 DEG.
.XX ±.015 FRACTIONS
.XXX ±.005 ±1/32

* THESE DIMENSIONS AND TOLERANCES
SUPERSEDE NOTE #1 ON TITLE BLOCK.

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].

DWG TITLE
PEWCA1002

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