WR-75 Square Type Flange to N Female Waveguide to Coax Adapter Operating From 10 GHz to 15 GHz, X-Ku Band

Waveguide to Coax Adapters Technical Data Sheet

PE9874

Features

- X-Ku Band, 10 to 15 GHz Frequency Range
- WR-75 Waveguide Interface with Square Type Flange
- N Female Coaxial Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

Description

The PE9874 is a waveguide to coaxial adapter operating in the X-Ku band with a 10 to 15 GHz frequency range. This adapter offers a WR-75 waveguide interface size coupled with a precision tolerance square Type flange. The PE9874 is constructed of aluminum to ensure durability and repeatable RF performance. The coaxial connector offered by this adapter uses a N type Female connector and the package is REACH and RoHS compliant.

Configuration

<table>
<thead>
<tr>
<th>Waveguide Size</th>
<th>WR-75</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flange</td>
<td>Square Type</td>
</tr>
<tr>
<td>RF Connector</td>
<td>N Female</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 Ohms</td>
</tr>
<tr>
<td>Body Geometry</td>
<td>Right Angle</td>
</tr>
</tbody>
</table>

Electrical Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>10</td>
<td>15</td>
<td></td>
<td>GHz</td>
</tr>
<tr>
<td>VSWR</td>
<td></td>
<td>1.3:1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input Power (Peak)</td>
<td></td>
<td>200</td>
<td></td>
<td>Watts</td>
</tr>
</tbody>
</table>

Mechanical Specifications

<table>
<thead>
<tr>
<th>Size</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>2.15 in [54.61 mm]</td>
</tr>
<tr>
<td>Width</td>
<td>1 in [25.4 mm]</td>
</tr>
<tr>
<td>Height</td>
<td>1.5 in [38.1 mm]</td>
</tr>
<tr>
<td>Weight</td>
<td>0.13 lbs [58.97 g]</td>
</tr>
</tbody>
</table>

RF Connector

- Connector Type: N Female
- Body Material and Plating: Stainless Steel

Waveguide Interface

- Waveguide Type: WR-75
- Flange Type: Square Type
- Body Material and Plating: Aluminum

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: WR-75 Square Type Flange to N Female Waveguide to Coax Adapter Operating From 10 GHz to 15 GHz, X-Ku Band PE9874
WR-75 Square Type Flange to N Female Waveguide to Coax Adapter Operating From 10 GHz to 15 GHz, X-Ku Band

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**Environmental Specifications**

**Temperature**
Operating Range: -40 to +85 deg C

**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**

![Typical Performance Data Graph](image)

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WR-75 Square Type Flange to N Female Waveguide to Coax Adapter Operating From 10 GHz to 15 GHz, X-Ku 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-75 Square Type Flange to N Female Waveguide to Coax Adapter Operating From 10 GHz to 15 GHz, X-Ku Band PE9874


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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PE9874 CAD Drawing

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. DIMENSIONS ARE IN MILLIMETERS (INCHES).

SCALE: 1/8" = 1' (20\(\frac{mm}{mm}\))

CAGE CODE: 53919

Label: PASTERNACK
PE9874
10 ~ 15 GHz

Label Surface

Square Type

5/8-24

0.625 [15.9]

0.200 [5.1]

1.685 [42.8]

2.148 [54.6]

1.040 [26.4]

0.750 [19.1]

1.500 [38.1] SQ.

WR-75

N Female

CAD FILE: 060717

PASTERNACK

PE9874

10 ~ 15 GHz

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d STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

\(\pm 0.005 \)