WR-42 UG-597/U Square Cover Flange to End Launch 2.92mm Female Waveguide to Coax Adapter Operating from 18 GHz to 26.5 GHz

Waveguide to Coax Adapters Technical Data Sheet PEWCA1070

Features
- K Band
- 18 to 26.5 GHz Frequency Range
- WR-42 Waveguide Interface
- UG-597/U Square Cover Flange
- 2.92mm Female RF Interface
- End Launch

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

Description
The PEWCA1070 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 using a standard UG-597/U Square Cover Flange. The PEWCA1070 is constructed of Aluminum Alloy and painted to ensure durability. The coaxial connector offered by this adapter uses a 2.92mm Female Connector. All waveguide components available for same day shipping.

Configuration
- Waveguide Size WR-42
- Flange UG-597/U Square Cover
- RF Connector 2.92mm Female
- Impedance 50 Ohms
- Body Geometry End Launch

Electrical Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>18</td>
<td>26.5</td>
<td></td>
<td>GHz</td>
</tr>
<tr>
<td>VSWR</td>
<td></td>
<td>1.3:1</td>
<td></td>
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</table>

Mechanical Specifications

- RF Connector
  - Connector Type 2.92mm Female

- Waveguide Interface
  - Waveguide Type WR-42
  - Flange Type Square Cover
  - Flange Designation UG-597/U
  - Body Material and Plating Aluminum, Paint

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 End Launch 2.92mm Female Waveguide to Coax Adapter Operating from 18 GHz to 26.5 GHz PEWCA1070
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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**

<table>
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<tr>
<th>VSWR</th>
<th>1.00</th>
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<th>1.40</th>
<th>1.60</th>
<th>1.80</th>
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<th>2.80</th>
<th>3.00</th>
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<tbody>
<tr>
<td>GHz</td>
<td>18.0</td>
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<td>19.7</td>
<td>20.6</td>
<td>21.4</td>
<td>22.3</td>
<td>23.1</td>
<td>24.0</td>
<td>24.8</td>
<td>25.7</td>
<td>26.5</td>
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</table>

WR-42 UG-597/U Square Cover Flange to End Launch 2.92mm 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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*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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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].

PEWCA1070
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PEWCA1070 CAD Drawing

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