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.

### Features
- WR-42
- 18 to 26.5 GHz
- UG-595/U Flange
- 1 dB Maximum Insertion Loss
- 1 Watt Average Power Handling
- 0 to 180 Degree Phase Shift Over the Full Band

### Applications
- Instrumentation
- Precision measurements
- Prototyping and characterization

### Description
The PE-W42PS1001 is a waveguide variable phase shifter that is part of a family of high performance phase shifters with a square cover per MIL-DTL-85. These phase shifters are built using low loss dielectric material, which offers minimum insertion loss. These standard terminations are offered in the Ka through W waveguide bands (18 to 110 GHz.) The phase shifters are equipped with micrometer, which allows fine control resulting in accurate and repeatable phase settings. The variable phase shifters are typically used in the test setups and prototype assemblies where accurate phase shifting is required.

### Electrical Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
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<tr>
<td>Frequency Range</td>
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<td>26.5</td>
<td>GHz</td>
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<tr>
<td>Phase Shift</td>
<td>0 to 180</td>
<td>Degrees</td>
<td></td>
<td></td>
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<tr>
<td>Insertion Loss</td>
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<td>dB</td>
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<td></td>
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<tr>
<td>Input Power (CW)</td>
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<td>Watts</td>
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</table>

### Mechanical Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Flange 1</th>
<th>Waveguide</th>
<th>Flange 2</th>
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<tbody>
<tr>
<td>Interface</td>
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<td>WR-42</td>
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<td>Plating Specification</td>
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<tr>
<td>Finish</td>
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</tr>
</tbody>
</table>

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 0 to 180 Degree WR-42 Waveguide Phase Shifter, From 18 GHz to 26.5 GHz, With a UG-595/U Flange PE-W42PS1001
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Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

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0 to 180 Degree WR-42 Waveguide Phase Shifter, From 18 GHz to 26.5 GHz, With a UG-595/U Flange

Waveguide Phase Shifters Technical Data Sheet

0 to 180 Degree WR-42 Waveguide Phase Shifter, From 18 GHz to 26.5 GHz, With a UG-595/U Flange 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: 0 to 180 Degree WR-42 Waveguide Phase Shifter, From 18 GHz to 26.5 GHz, With a UG-595/U Flange PE-W42PS1001


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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0 to 180 Degree WR-42 Waveguide Phase Shifter, From 18 GHz to 26.5 GHz, With a UG-595/U Flange

**UNLESS OTHERWISE SPECIFIED:**

DIMENSIONS ARE IN: inches [mm]

TOLERANCES ARE:
- .XX ± .10 [± 2.54]
- .XXX ± .005 [± .127]

* 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].