Variable Phase Shifters

Summary:
These Phase Shifters are used for varying the electrical length of transmission lines. Each unit consists of a section of waveguide with a narrow slot milled in the broad wall. Through this slot, a thin rexolite vane is introduced into the waveguide by a precision micrometer. The drive mechanism is arranged to provide more than 180° of phase shift over 0.300” travel on the micrometer dial, depending on the waveguide size. Featuring no backlash, these units will produce accurate and reproducible settings. All units are un-calibrated. Variable Phase Shifters are available in sizes WR3 to WR42.

This product is now available with a metric micrometer drive assembly.

Ordering Example:
VP10R is a Variable Phase shifter in WR10 with a round flange hole pattern.

<table>
<thead>
<tr>
<th>Part Name</th>
<th>WR</th>
<th>Frequency (GHz)</th>
<th>WG A DIM (in)</th>
<th>WG B DIM (in)</th>
<th>Length - A (in)</th>
<th>Height - B (in)</th>
<th>Flange</th>
</tr>
</thead>
<tbody>
<tr>
<td>VP42S</td>
<td>42</td>
<td>18 - 26.5</td>
<td>0.4200</td>
<td>0.1700</td>
<td>*</td>
<td>*</td>
<td>S 0.875</td>
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<tr>
<td>VP28S</td>
<td>28</td>
<td>26.5 - 40</td>
<td>0.2800</td>
<td>0.1400</td>
<td>*</td>
<td>*</td>
<td>S 0.750</td>
</tr>
<tr>
<td>VP22R</td>
<td>22</td>
<td>33 - 50</td>
<td>0.2240</td>
<td>0.1120</td>
<td>1.500</td>
<td>2.185</td>
<td>R 1.125</td>
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<tr>
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<td>19</td>
<td>40 - 60</td>
<td>0.1880</td>
<td>0.0940</td>
<td>1.500</td>
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<td>R 1.125</td>
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<td>15</td>
<td>50 - 75</td>
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<td>0.0740</td>
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<td>2.125</td>
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<td>60 - 90</td>
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<td>R 0.750</td>
</tr>
<tr>
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<td>10</td>
<td>75 - 110</td>
<td>0.1000*</td>
<td>0.0500</td>
<td>1.200</td>
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<td>90 - 140</td>
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*Available Upon Request