Product Overview

Phoenix Photonics variable phase shifter is a compact, simple to operate, all-fiber device for wideband operation. Applying a voltage to the pins gives a controlled modification of the phase shift through the device. The phase shifter provides phase shifts up to 500° over a broad wavelength range. There are no in-line interfaces allowing the full power handling capacity of the fiber to be utilized and offering a virtually zero excess loss and PDL.

The phase shifter is available in single mode (SM) or polarization maintaining (PM) fiber format.

Features & Applications

FEATURES:
- All-fiber
- Simple current control
- >50° phase shift
- Low insertion loss
- Low drive voltage

APPLICATIONS:
- Interferometer stabilization
- Interferometric sensors
- Fiber phase control

For more information please contact Phoenix sales: sales@phoenixphotonics.com or visit us at www.phoenixphotonics.com
**SPECIFICATION**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Units</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength range</td>
<td>nm</td>
<td>1300 - 1610</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>dB</td>
<td>&lt;0.01</td>
</tr>
<tr>
<td>Total phase shift</td>
<td>radians</td>
<td>&gt;50 &gt;150 or on request</td>
</tr>
<tr>
<td>Time constant (10% to 90%)</td>
<td>ms</td>
<td>800</td>
</tr>
<tr>
<td>Return Loss</td>
<td>dB</td>
<td>&gt;70</td>
</tr>
<tr>
<td>Drive Current</td>
<td>mA</td>
<td>0 - 65</td>
</tr>
<tr>
<td>Maximum Voltage</td>
<td>V</td>
<td>0 - 5</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>°C</td>
<td>-5 to 70</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>°C</td>
<td>-40 to +85</td>
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<tr>
<td>Fiber type</td>
<td></td>
<td>SMF28, PANDA</td>
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<tr>
<td>Input &amp; Output Fiber Lengths</td>
<td>mm</td>
<td>1000</td>
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</tbody>
</table>

**Specification Notes**
1. Devices will operate over full wavelength range. Also available in other wavelength ranges please contact sales with requirement
2. Losses do not include connectors

**Packaging Style**

All dimensions are approximate and may vary slightly

**Ordering Information**

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V P S - - - -
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Wavelength:
15 – 1530 – 1610 nm
14 – 1480 - 1530 nm
13 – 1280 - 1330 nm

Input/output fiber:
SM – Single Mode
PM – Polarization Maintaining

Connectors:
0 – none
1 – FC/PC
2 – FC/APC

Cable type:
0 – none
1 – 900um loose tube