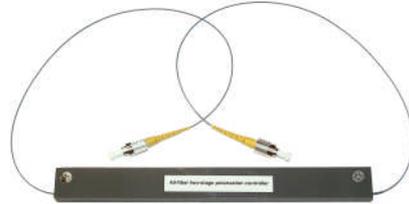




Electronically Addressed Polarization Controller Based On Unique Specialty Optical Fiber and Side Polish technology



Product Features

High Extinction Ratio
Low Insertion Loss
Low Cost
Stable and Reliable
All-Fiber configuration

Applications

High Speed communication
Fiber Sensors
Defense
Test and Measurement
Fiber Lasers

The FiberLogix all-fiber optical State of Polarization (SOP) controller provides electronic variation of any arbitrary input SOP to any other state. The device is based on unique combination of "specialty optical fiber" and "side polish technology". One element provides closed circle in the Poincare sphere, two-element: take a linear polarization anywhere on the whole Poincare sphere. three elements: take any polarization anywhere on the sphere. four elements: provide no-reset full continuous coverage. The polarization controller can be configured to operated manually through external analog control pins supplies or computer controlled for application in autotracking systems.

| Specifications | Unit | All-Fiber |
|-------------------------|------|---------------------------|
| Configuration | | 1,2,3 or 4 stages |
| Operating wavelength | nm | 1280-1625 |
| Response Time | sec | <1msec on and <10msec off |
| Insertion Loss | dB | 0.2 |
| PDL | dB | 0.2 |
| Back Reflection | dB | >70 |
| Operating temp. | °C | -5 - +80 |
| Electrical requirements | | 5V, 80mA max. |
| Package size | mm | 150x20x10 |

Ordering Information:

PMC-AB-CD-EF-GH-IJ

AB=Elements 1, 2, 3 or 4

EF=In/out fiber SM/SM

IJ= 25 or 90 (250um bare fiber or 900um loose tube)

CD= Wavelength= 13 or 15

GH=Connector FC/SPC and FC/APC