

# Drop in Polarization Controller — PolaRITE™

This is the in-line version of PolaRITE™. It can be inserted into a fiber optic system to control the polarization state of light without having to disconnect any part of the system. It can be used by simply inserting a length of fiber into the slot located on top of the device. The miniature version can be inserted in even tighter spaces in a fiber optical module.



## Specifications:

Intrinsic Insertion Loss	< 0.05 dB
Return Loss	> 65 dB
Operating Wavelength	480 nm, 633 nm, 780 nm, 820 nm, 980 nm, 1060 nm, 1260 ~ 1650 nm
Extinction Ratio	> 40 dB
Operating Temperature	-40 ~ 85 °C
Storage Temperature	-40 ~ 85 °C
Dimensions	1.00" x 1.09" x 3.00" (W x H x L) (PLC-003) 0.50" x 0.84" x 3.00" (W x H x L) (PLC-006)

(Values are referenced without connectors)

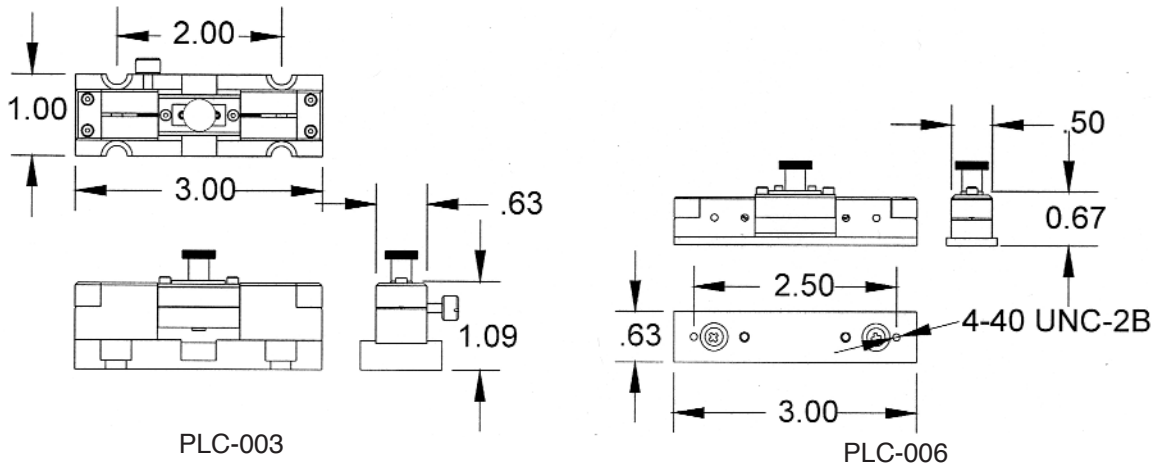
## Features:

- Low Loss
- Low backreflection
- Compact
- Easy to connect
- Low cost
- Insensitive to wavelength variations
- Works with fibers of any size

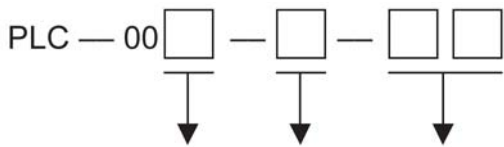
## Applications:

- High speed telecommunication systems
- WDM systems
- CATV systems
- Fiber lasers
- Fiber sensor systems
- PM fiber systems
- Antenna remoting systems

## Dimensions: (Inch)



## Ordering Information:



3 = Lab. version    S = Fiber clamp with screws    25 = 250 μm jacket  
 6 = Miniature version    M = Fiber clamp with magnets    90 = 900 μm jacket

PLC-006 has no 900 μm jacket option

See page 45 for pigtailed polarization controller, page 47 for fully connectorized polarization controller