

# In-line Polarizer

## Description

The In-line Polarizer is a Micro Optics device can be used to convert un-polarized light into polarized light with high extinction ratio. It can also be used to enhance the extinction ratio of signals. The In-line polarizer offers low insertion loss, high extinction ratio, high return loss and excellent environmental stability and reliability. It is ideal for high speed communication systems and test instrumentation applications.

## Key Features

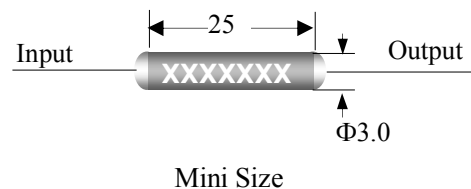
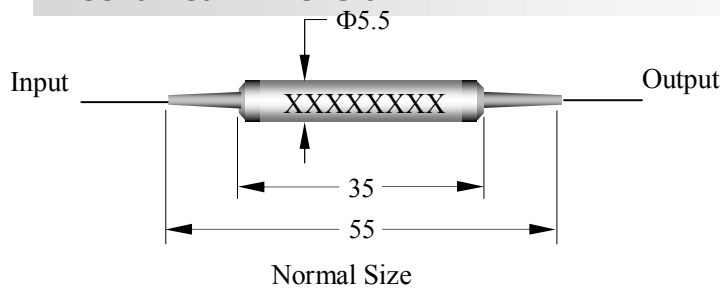
- Compact size
- Low insertion loss
- High extinction ratio
- Excellent stability and reliability

## Applications

- Fiber lasers
- Fiber amplifiers
- Fiber Sensors
- Optical Communications



## Mechanical Dimension



## Specifications

Parameter	Type	Unit	In-line Polarizer					
			630	850	980	1064	1310	1550
Center wavelength		nm	630	850	980	1064	1310	1550
Operating bandwidth		nm	±20	±20	±20	±40	±50	±50
Insertion loss		dB	≤1.3	≤1.0	≤0.8	≤0.6	≤0.5	
Extinction ratio @23°C		dB	≥24	≥25	≥25	≥28	≥28	
Return loss		dB	≥50					
Fiber type		/	Option1: PMF- PMF Option2: SMF - PMF Option3: SMF – SMF					
Handling power		mW	≤300			≤500		
Operating temperature		°C	-5~70					
Storage Temperature		°C	-40~85					
Dimensions		mm	Φ5.5×L35 or Φ3.0×L25					

\* For option2 and option3, all of Insertion Loss should plus 3.0dB when launching circular polarized light;

\*\* IL is 0.3dB (1310~1550nm) or 0.50dB (980~1060) or 0.80dB (780~850) or 1.50dB (630) higher, RL is 5dB lower and ER is 2dB (1310~1550nm, 980~1060nm) or 3dB (780~850nm, 630nm) lower for each connector added. The default connector key is aligned to slow axis.

## Ordering Information

ILP-XXX-XXX-X-X-XX/XXX-XX\*XX

