

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

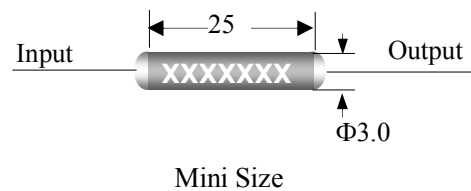
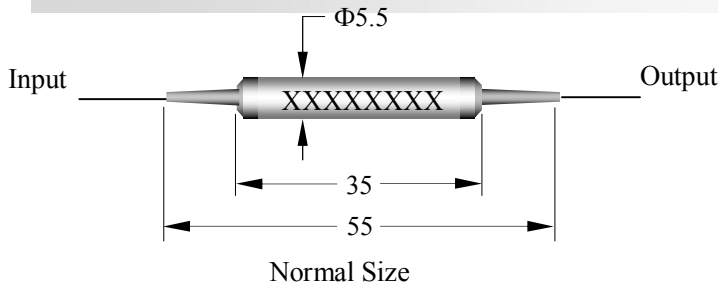
- Compact size
- Low insertion loss
- High extinction ratio
- Excellent stability and reliability

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

