

## 2 $\mu$ m In-Line Polarizer (ILP Series)

Rev 11

### Description

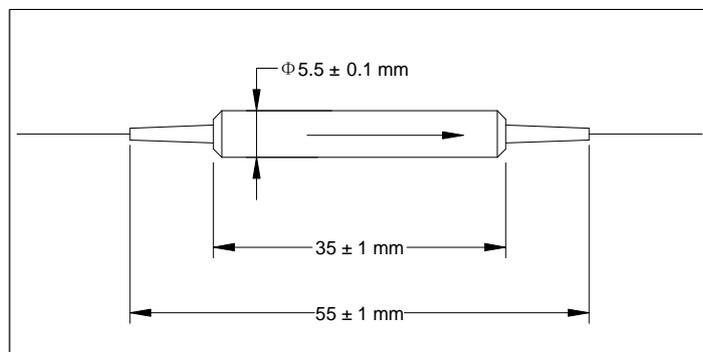
The 2  $\mu$ m In-Line Polarizer is designed to pass light with one specific polarization while blocking the other polarization. It can be used to convert unpolarized light into polarized light with high extinction ratio. It can also be used to enhance the extinction ratio of signals with its excellent polarization properties. It is ideal for high speed communication systems and test instrumentations where high polarization extinction ratio is required.

### Specifications

Parameters	Unit	Values
Center Wavelength ( $\lambda_c$ )	$\mu$ m	2
Operating Wavelength Range	nm	$\lambda_c \pm 30$
Typ. Insertion Loss, 23 $^{\circ}$ C	dB	0.8
Max. Insertion Loss, 23 $^{\circ}$ C	dB	1.0
Min. Extinction Ratio	dB	20
Max. Optical Power (Continuous Wave)	mW	300
Min. Return Loss	dB	50
Fiber Type	-	SMF-28, or PM 1550 Panda Fiber
Operating Temperature	$^{\circ}$ C	- 5 to + 70
Storage Temperature	$^{\circ}$ C	- 40 to + 85

<sup>1</sup>IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

### Package Dimensions



### Ordering Information

ILP-①①①①-②-③-④-⑤

①①: Wavelength

2000 - 2000 nm

SSSS - Specify

②: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

③: Fiber Jacket

B - 250  $\mu$ m Panda Fiber

L - 900  $\mu$ m Loose Tube

S - Specify

④: Fiber Type (Input/Output)

1 - PM/PM

2 - SMF/PM

3 - SMF/SMF

⑤: Fiber Length

Q - 0.75 m

S - Specify