

High Extinction Ratio In-line Polarizer (HILP Series)



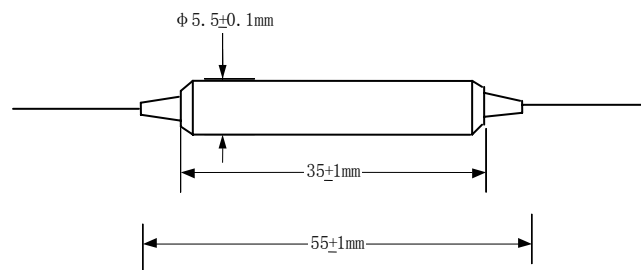
The High Extinction Ratio In-line Polarizer is designed to pass light with one specific polarization while blocking the other polarization. It can be used to convert unpolarized light into polarized light with very high extinction ratio. It can also be used to enhance the extinction ratio of signals with its excellent polarization properties. It is ideal for special communication systems, sensors and test instrumentations. The 2x2 Polarization Maintaining Optical Circulator is a compact high performance lightwave component that transmits the incoming signal from port 1 to port 2, from port 2 to port 3, and from port 3 to port 4. The component provides high isolation, low insertion loss, high extinction ratio, and excellent environment stability.

Specifications

Parameter	Unit	Type A	Type B
Center Wavelength	nm	1310 or 1550	
Operating Wavelength Range	nm	± 30	± 20
Typ. Insertion Loss at 23°C; λc, all polarization states	dB	0.8	0.7
Max. Insertion Loss at -5°C - 70°C; all Wavelength Range, all polarization states	dB	1.1	1.0
Peak Isolation	dB	52	40
Typ. Isolation at 23°C; λc	dB	46	30
Min. Isolation at 23°C; all Wavelength Range, all polarization states	dB	40	25
Min. Extinction Ratio	dB	20	20
Min. Cross Talk(1 -> 3, 2 -> 4)	dB		50
Min. Return Loss	dB		55
Max. Optical Power (Continuous Wave)	mW		300
Max. Tensile Load	N		5
Operating Temperature	°C		-5 to + 70
Storage Temperature	°C		-40 to +85

1. Above specifications are for device without connector.
2. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 5dB lower.

Dimension



Ordering Information

HILP-①①-②-③-④-⑤

①①: Wavelength

31 - 1310nm

48 - 1480nm

55 - 1550nm

SS - Specify

②: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

③: PM Fiber Type

B - 250um Panda fiber

D - 400um Panda fiber

L - 900um loose tube

S - Specify

④: Fiber Type (input-output)

1 - PM-PM

2 - SMF-PM

3 - SMF-SMF

⑤: Fibre Length

Q - 0.75 m

S - Specify

Remark: The PM fiber and the connector key are aligned to the slow axis.

Contact Information

For more information about BATi's leadership in variable optical attenuation technology and other optical networking modules and components, visit our website at www.bostonati.com.

To obtain additional technical information or to place an order for this product, please contact us at:

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