



In-line Faraday Rotator (ILF Series)

The In-line Faraday Rotator is designed to rotate the polarization of the input light by 45 degrees. It performs low insertion loss, high extinction ratio, high return loss and excellent environmental stability. It is used in sensors, circulators, amplifiers, lasers, etc.

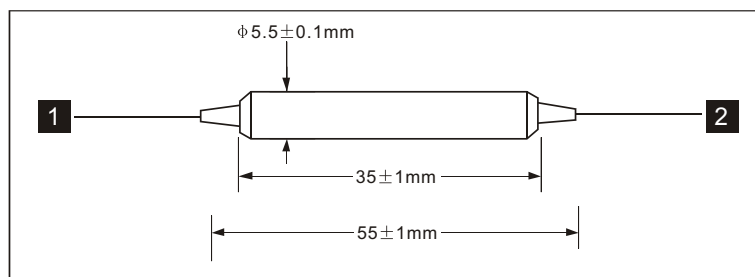


Specifications		
Parameters	Unit	Values
Center Wavelength	nm	1310, 1480 or 1550
Operating Wavelength Range	nm	± 15
Typ. Insertion Loss	dB	0.3
Max. Insertion Loss	dB	0.5
Rotation Angle, CWL, at 23°C	deg	45 ± 1
Min. Extinction Ratio (Slow axis of port 1 is aligned to slow axis of port 2, for PM-PM type, at 23°C)	dB	20
Min. Extinction Ratio (Slow axis of port 2 is aligned to fast axis of port 1, for PM-PM type, at 23°C)	dB	20
Min. Return Loss	dB	50
Max. Optical Power	mW	300
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

*Above specifications are for devices without connectors.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower.

Package Dimensions



Ordering Information

ILF-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: Fiber Type
B - 250um Panda Fiber
D - 400um Panda Fiber
L - 900um loose tube Panda Fiber
S - Specify

④: Fiber Type (Port 1 - Port 2)
1 - PM-PM
2 - SMF-PM
3 - SMF-SMF

⑤: Fiber Length
Q - 0.75m
S - Specify

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