

PRODUCT INFORMATION SHEET

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.

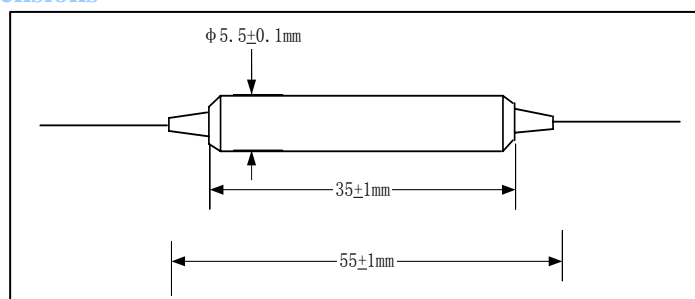
Specifications

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 device without connector.

*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-①-②-③-④-⑤

① Wavelength	② Connector Type	③ Fiber Type	④ Fiber Type(Port1-Port2)	⑤ Fiber Length
31 - 1310nm	1 - FC/UPC	B - 250um Panda Fiber	1 - PM-PM	Q - 0.75 m
48 - 1480nm	2 - FC/APC	D - 400um Panda Fiber	2 - SMF-PM	S - Specify
55 - 1550nm	3 - SC/UPC	L - 900um loose tube Panda Fiber	3 - SMF-SMF	
SS - Specify	4 - SC/APC	S - Specify		
	N - None			
	S - Specify			

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