

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, amplifiers, lasers, etc.

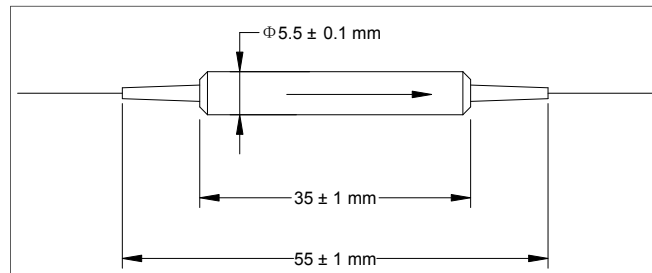
Specifications

| Parameter | Unit | Value |
|--|--------|--------------------|
| Center Wavelength (λ_c) | nm | 1310, 1480 or 1550 |
| Operating Wavelength Range | nm | $\lambda_c \pm 15$ |
| Typ. Insertion Loss | dB | 0.3 |
| Max. Insertion Loss | dB | 0.5 |
| Rotation Angle, λ_c , 23 °C aligned | degree | 45 ± 1 |
| to slow axis of output port, for PM/PM type, at 23 °C) aligned | dB | 20 |
| to fast axis of input port, for PM/PM type, at 23 °C) aligned | dB | 20 |
| Min. Return Loss | dB | 50 |
| Max. Optical Power (Continuous Wave) | mW | 500 |
| Operating Temperature | °C | -5 to +70 |
| Storage Temperature | °C | -40 to +85 |

*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

ILF-①①②③④⑤

| | | | |
|----------------|-------------------|----------------------------|------------------------------|
| ①①: Wavelength | ②: Connector Type | ③: Jacket Type | ④: Fiber Type (Input/Output) |
| 31 - 1310 nm | 1 - FC/UPC | B - 250 μ m bare fiber | 1 - PM/PM |
| 48 - 1480 nm | 2 - FC/APC | L - 900 μ m loose tube | 2 - SMF/SMF |
| 55 - 1550 nm | 3 - SC/UPC | | S - Specify |
| SS - Specify | 4 - SC/APC | | |
| | N - None | | ⑤: Fiber Length |
| | | | Q - 0.75 m |
| | | | S - Specify |