



## Mini In-line Faraday Rotator

### Features

High Return Loss  
High Extinction Ratio  
Low Insertion Loss  
Excellent Environmental Stability  
Compact Size

### Applications

Compact Fiber Sensor  
Compact Fiber Amplifier  
Fiber Lasers  
Research

### Specifications

Parameters	Unit	Values
Center Wavelength ( $\lambda_c$ )	nm	1310, or 1550
Operating Wavelength Range	nm	$\pm 20$
Typ. Insertion Loss	dB	0.3
Max. Insertion Loss	dB	0.5
Min. Return Loss	dB	50
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
Rotation Angle at 23°C, $\lambda_c$	°C	45 $\pm$ 1
Max. Optical Power (CW)	mW	500
Max. Tensile Load	N	5
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

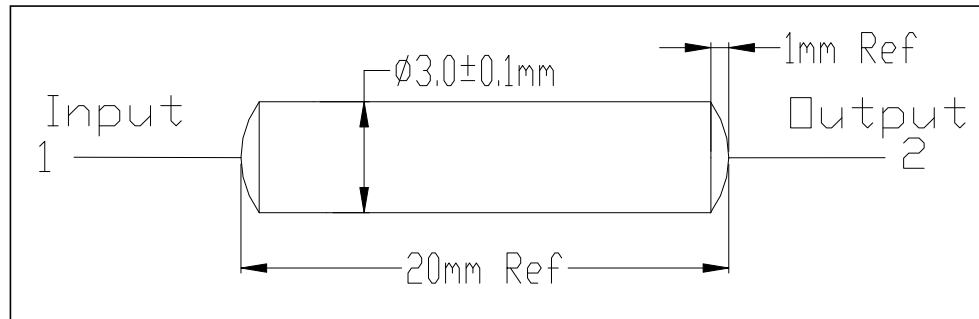
\*Above specifications are for devices without connectors.

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

\*The PM fiber and the connector key are aligned to the slow axis.

\*The material must be RoHS compliant.

### Package Dimensions



### Ordering information

MILF-①-②-③③-④④-⑤-⑥-⑦

①: Wavelength

1310 - 1310nm

1550 - 1550nm

S - Specify

②: Handling Power

0.5 - 0.5W

③③: Connector Type on Port 1 & 2

1A - FC/UPC

2A - FC/APC

N - None

S - Specify

④④: Fiber Jacket on Port 1 & 2

B - 250um Bare Fiber

C - 900um Red Loose Tube

D - 900um Blue Loose Tube

E - 900um Black Loose Tube

F - 900um White Loose Tube

SS - Specify

⑤: Fiber Type on Port 1 & 2

3A - PM1550 Fiber

8 - SMF-28e Fiber

S - Specify

⑥: Fibre Length

0.8 - 0.8m

S - Specify

⑦: Package Type

06 -  $\varnothing 3.0 \times 20$