



In-line Faraday Rotator

Features

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

Applications

Fiber Sensor
 Fiber Amplifier
 Fiber Lasers
 Research

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1310, 1480 or 1550
Operating Wavelength Range	nm	± 20
Typ. Insertion Loss	dB	0.3
Max. Insertion Loss	dB	0.5
Min. Return Loss	dB	50
Min. Extinction Ratio	dB	20
(Slow Axis of Port 1 is aligned to Slow Axis of Port 2, for PM-PM Type, at 23°C)		
Min. Extinction Ratio	dB	20
(Slow Axis of Port 2 is aligned to Fast Axis of Port 1, for PM-PM Type, at 23°C)		
Rotation Angle at 23 deg, λ_c	Degree	45 ± 1
Max. Optical Power (CW)	mW	500
Max. Tensile Load	N	5
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

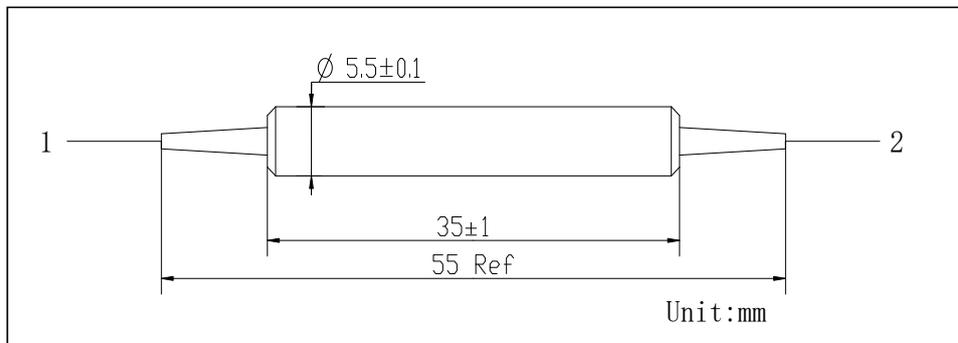
*Above specifications are for devices without connectors.

*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

ILF-①-②-③③-④④-⑤-⑥-⑦

①: Wavelength

1310 - 1310nm

1480 - 1480nm

1550 - 1550nm

S - Specify

④④: Fiber Jacket on Port 1 & 2

B - 250um Bare Fiber

C - 900um Red Loose Tube

F - 900um White Loose Tube

SS - Specify

⑦: Package Type

01 - $\varnothing 5.5 \times 35$

②: Handling Power

0.5 - 0.5W

⑤: Fiber Type on Port 1 & 2

3A - PM1550 Fiber

8 - SMF-28e Fiber

S - Specify

③③: Connector Type on Port 1 & 2

1A - FC/UPC

2A - FC/APC

3D - SC/UPC

⑥: Fibre Length

0.8 - 0.8m



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 (λ_c)	nm	1310, or 1550
Operating Wavelength Range	nm	± 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, λ_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

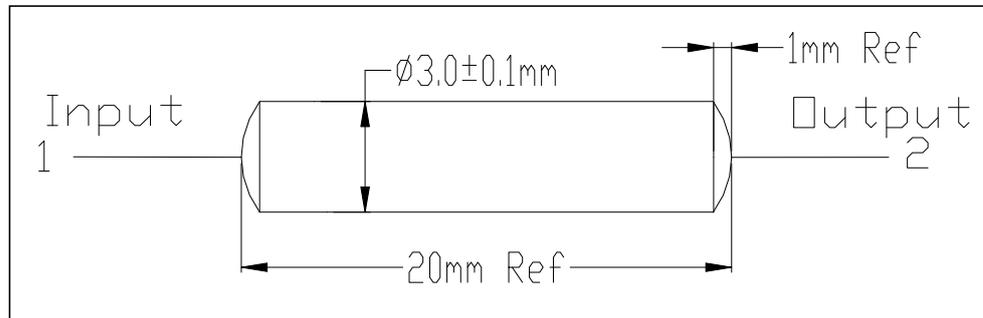
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*The PM fiber and the connector key are aligned to the slow axis.

*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 - $\varnothing 3.0 \times 20$