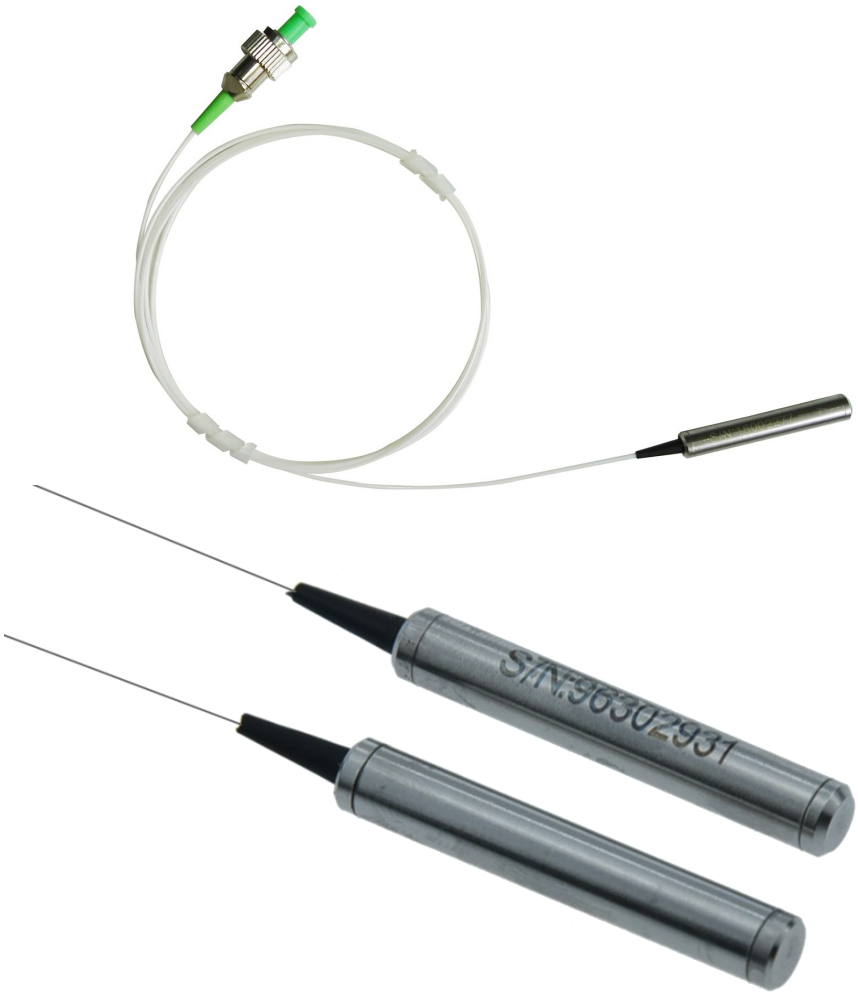
Faraday Mirror Series

1310nm Faraday Mirror

Key Features

- High Isolation
- Low Insertion Loss
- High Return loss
- Compact Size
- Epoxy Free Optical Path

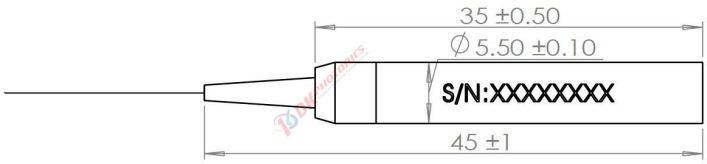
The Faraday Mirror is a passive device that provides 45- or 90-degree rotation regarding to the polarization state of the input light. It is a fiber optic polarization rotation mirror designed for fiber optic networks and measurement applications. The device can help to eliminate polarization sensitivity of an optical fiber system. Applications include eliminating polarization induced fluctuations in fiber interferometers, Brillouin amplifier systems, fiber laser systems, and fiber optic antenna remoting systems. Our Faraday Mirror is optical path epoxy free and thus offers low insertion loss and high temperature stability.



Applications

- Fiber Optical Amplifier
- Fiber optic Systems Testing
- Fiber optic LAN Systems
- Telecommunications

Package Dimension



*Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.

For more Info

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1310nm Faraday Mirror

Performance Specifications

Parameter	Unit	Values
Center Wavelength	nm	1310
Operating Bandwidth	nm	±30
Max. Insertion Loss	dB	0.6(45deg.),0.7(90deg.)
Faraday Rotation Angle (Single Pass)	degree	45 or 90
Rotation Angle Tolerance over Wavelength and Temperature	degree	+/-1
Max. PDL	dB	0.10
Max. Optical Power	mW	500
Fiber Type	-	SMF-28e
Operation Temperature	°C	-5 ~ +50
Storage Temperature	°C	-40 ~ +85
Dimensions	mm	Ø5.5xL35,

1. Above specification are for device without connector, and may change without notice.
2. IL is 0.3 dB higher and RL is 5 dB lower for connectors added.

Order information

P/N: FM–①–②–③–④–⑤–⑥

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250μm bare fiber pigtail.

①	②	③	④	⑤	⑥
Wavelength	Faraday Rotation Angle	Dimensions	Pigtails Diameter	Fiber Length	Connector
13:1310nm	45:45°	1: Ø5.5mmxL35mm	25:250μm bare fiber	05:0.5m	00: None
XX: Others	90:90°		90:900μm Loose Fiber	10:1.0m	FP: FC/PC
			XX: Others	15:1.5m	FA: FC/APC
				XX: Others	SA: SC/APC
					LA: LC/APC
					XX: Others

Part Number Example: FM-13-45-1-90-10-00

Description: 1310nm Faraday Mirror, Faraday rotation angle: 45°, Ø5.5xL35mm package, with 0.9mm OD loose tube, 1.0m length fiber pigtails, and no connectors at all ports.

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.