

## Design

Using a micro aspheric glass lens, light exiting the fiber is properly collimated through a Bismuth Iron Garnet (BIG) Faraday rotating element that is accurately positioned in the field of a permanent magnet. The beam, reflected at normal incidence by a dielectric coated mirror, retraces its original path and re-enters the fiber.

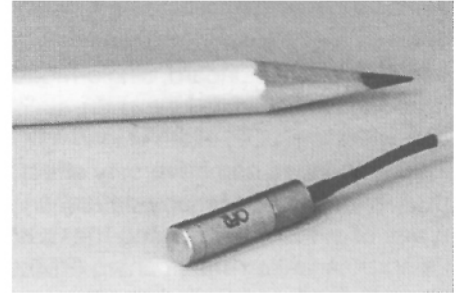
Faraday Rotator Mirrors are available off-the-shelf pigtailed with standard single mode fiber, Corning

SMF 28 or equivalent. The fiber is mounted in a standard 900mm tight tube buffer with proper strain relief.

### Low-loss Models,

are selected for Insertion Loss less than 0.5dB. Standard loss models are available at less than 0.8 dB. Also unique to our FRMs is high power capability....2-3W.

**No other FRMs on the market can claim to match our specifications.**



Faraday Rotator Mirror, stainless steel body, 5.5mm dia x 22mm long.

Catalog Number	Model	Wavelength	Bandwidth	Insertion Loss	Return Loss	Faraday Rotation
MFI-1310-A	Low loss	1310 nm	13 nm	≤0.5 dB	> 55 dB	45° ±1°
MFI-1550-A	Low loss	1550 nm	15 nm	≤0.5 dB	> 55 dB	45° ±1°
MFI-1310-B	Standard	1310 nm	13 nm	≤0.8 dB	> 55 dB	45° ±1°
MFI-1550-B	Standard	1550 nm	15 nm	≤0.8 dB	> 55 dB	45° ±1°

