

# Faraday Rotator Mirror



## DESCRIPTION

Our Faraday Rotator Mirrors offer engineers an inexpensive means of compensating for thermal or mechanical disturbances that affect the polarization of single-mode fiber, and ultimately the performance of many systems. These passive components eliminate polarization-induced fringe fading in interferometers and sensors, and can also optimize gain for EDFAs.

## APPLICATIONS

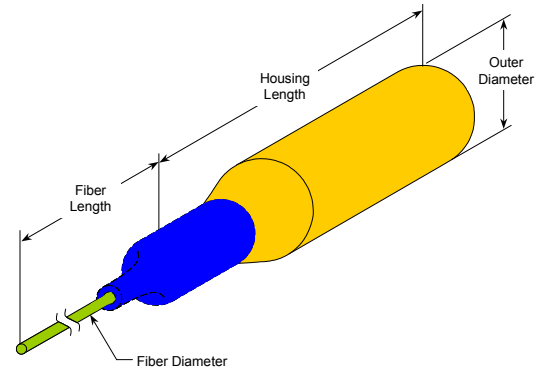
-Michelson Interferometer Sensor Systems  
-Optical Amplifiers as EDFAs  
-Instrumentation

-Fiberoptic Sensing Applications  
-Field & Laboratory Applications  
-Acoustic & Magnetic Sensing

## FEATURES

- Superior Performance and Reliability
- Low Insertion Loss
- High Reflectivity
- Many Fiber Choices Available

## SAMPLE DIAGRAM



<u>SPECIFICATIONS</u>	<u>Wavelengths</u>		
Wavelengths *	1310nm	14xx	1550nm
Insertion Loss (typical)	$\leq 0.5\text{dB}$		
Rotation	$90^\circ \pm 2^\circ$		
Back Reflection	$> 55\text{dB}$		
Diameter (standard)	5.6mm *		
Length (standard)	25.7mm *		
Operating Temperature Range	0°C ~ + 70°C		
Storage Temperature Range	-20°C ~ + 70°C		
Maximum Power	300 mW		
*	Other diameters and lengths available upon request		

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