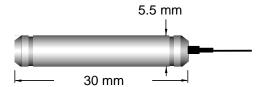


Product Bulletin



The fiber faraday rotator mirror eliminates polarization fringe fading in fiberoptic Michelson Interferometer Sensors. This is achieved passively and is independent of the inital state of polarization. The product provides low insertion loss, high reverse coupling efficiency, and low return loss.

Package Dimensions



Fiber Faraday Rotator Mirror

Key Features

- High reflection coefficiency
- High power handling
- Multiple wavelengths available

Applications

- DWDM systems
- Advance optical instrumentation

Specifications

Parameter		A Grade	
Center wavelength		1310, 1480, 1550, 1590 nm	
Spectral width	Minimum	30 nm	
Faraday rotation angle (single pass)		45°	
Faraday rotation angle tolerance	Maximum	0.5°	
Reflection coefficient ¹	Typical	92%	
	Minimum	85%	
Reflection polarization dependence	Maximum	2%	
Return loss from Fiber/GRIN lens interface	Minimum	30 dB	
Optical power handling	Maximum	300 mW	
Tensile load	Maximum	5 N	
Operating temperature		-20 to 60 °C	
Storage temperature ²		-40 to 85 °C	

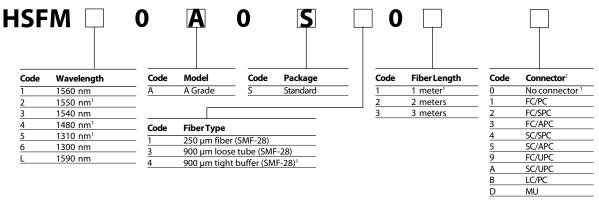
Environmental Tests

Temperature cycling	-40 to 80 °C for 14 days; rate 1 °C/min; dwell 1 hour at extremes	
High temperature bake	80 °C for 2,000 hours	
Vibration test	3 axes 20 g's at 20 to 2,000 Hz	
Shock	3 axes, 100 g's, 11 ms	
Maximum tensile load	10 N force for 10 sec.	

Ordering Information

Indicate your requirements by selecting one option from each configuration table. Please print the corresponding codes in the available boxes to form your part number. For more information on this or other products and their availability, please contact your JDS Uniphase account manager, or call 1-877-550-JDSU toll free in the U.S. and Canada, or visit www.jdsuniphase.com.

Sample: HSFM10A0S1010



1. Standard product.

2. Insertion loss and return loss depend on connector type.

SMF-28 is a registered trademark of Corning Incorporated



Without connectors
-20 to 70 °C for 3.0 mm cable