



**1539.4nm Narrow Bandwidth Fiber Bragg
Grating (FBG) Filter (Bandwidth < 0.05nm,
reflectivity up to 90%,
polarization-maintaining optional)**



- **Product Description**

This narrow bandwidth bandpass filter from IdealPhotonics is based on our advanced Fiber Bragg Grating (FBG) technology. The narrow bandwidth

bandpass filter can selectively transmit light signals with a small bandwidth while blocking all other wavelengths. This filter is designed for applications such as fiber laser ASE noise suppression, LiDAR filters, high-resolution Raman spectroscopy, fluorescence microscopy, and optical instruments.

- **Product features**

Ultra-narrow bandwidth、 All-fiber structure、 Wavelength selectable、 Wide stopband width、 Different fiber types available

- **Part Number**

MP-FBG-1539.4-0.05-SA

- **Application area**

Fiber laser noise filtering、 Lidar spectral noise filtering、 High-resolution Raman spectroscopy analysis、 Fluorescence imaging

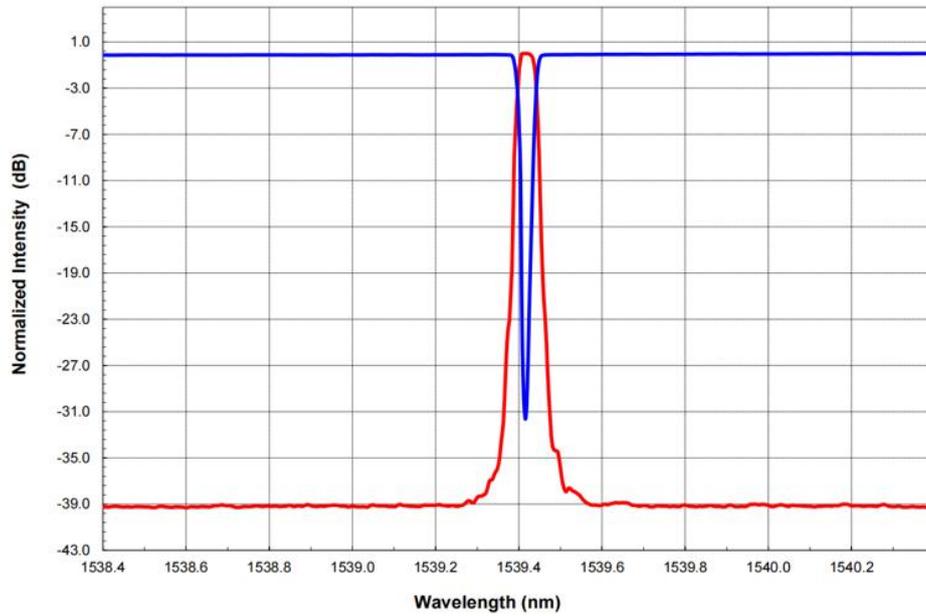
- **Core parameters**

Center Wavelength	Bandwidth	Fiber Type
1539.4nm	<0.05nm	SMF28e+

● General Parameters

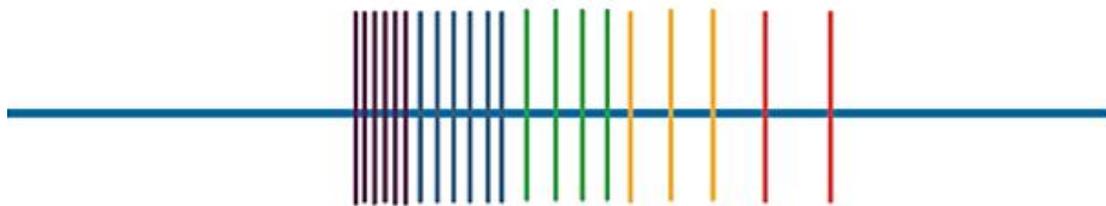
Technical Parameters

Name:	Fiber Bragg Grating		
		Temperature:	23°C
Optical Specifications	Requirement	Measurement	Unit
Center Wavelength @ 3 dB	1539.4291 ± 0.02	1539.42	nm
Isolation	N.A.	34.38	dB
Bandwidth @ 0.5dB	N.A.	0.03	nm
Bandwidth @ 3.0dB	<0.05	0.04	nm
Bandwidth @ 25.0dB	N.A.	0.09	nm
Reflectance	>99.9	100.0	%
Thermal Stability	N.A.	N.A.	pm/°C
Fiber Type	SMF28e+	SMF28e+	
Adsorptive Coating	N.A.	N.A.	
Connector	FC/APC	FC/APC	



Transmission spectrum

General Parameters



Ordering Info

MP-FBG- □□□□-☆-☆☆-A8▽-XX

□□□□: Wavelength

532:532nm



1064: 1064nm

1550: 1550nm

1950: 1950nm

☆ : bandwidth

004: 0.04nm

008: 0.08nm

☆☆ : Reflectivity

01: 1%

10: 10%

90: 90%

▽: Wavelength Tolerance

01: ±0.1nm

XX: Fiber and Connector Type

SA=SMF-28E+ FC/APC

SP=SMF-28E+ FC/PC

SN=SMF-28E+ None

PA=PM1550 Fiber+ FC/APC

PP=PM1550 Fiber+ FC/PC

PN=PM1550 Fiber+ None