



1551.08nm Narrow Linewidth Fiber Bragg Grating (FBG) Filter (Bandwidth < 0.05nm, Reflectivity up to 90%, PM optional)



- **Product Description**

IdealPhotonics' narrow linewidth passband filter is based on our advanced fiber Bragg grating technology. The narrow linewidth passband filter can be used to select narrow-bandwidth optical signals to pass through while blocking all other wavelengths. This narrow linewidth passband 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-1551.08-0.05-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
1551.08m	<0.05nm	SMF28e+

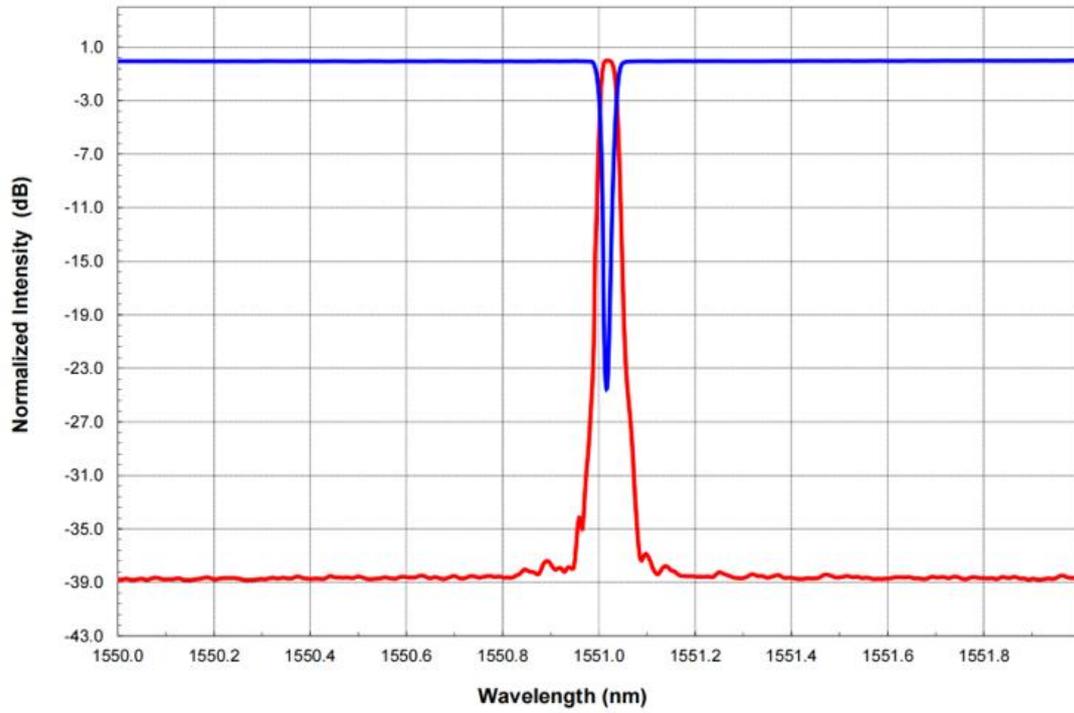
● General Parameters

Technical Parameters

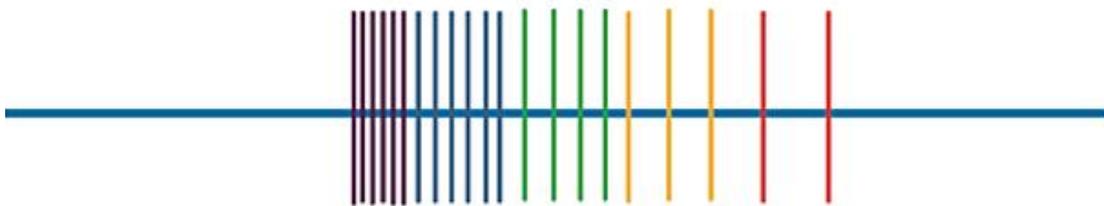
Name:	Fiber Bragg Grating			
			Temperature:	23°C
	Optical Specifications	Requirement	Measurement Values	Unit
	Center Wavelength @ 3 dB	1551.08 ± 0.1	1551.02	nm
	Isolation	N.A.	36.86	dB
	Bandwidth @ 0.5dB	N.A.	0.02	nm
	Bandwidth @ 3.0dB	<0.05	0.03	nm
	Bandwidth @ 25.0dB	N.A.	0.07	nm
	Reflectance	>95	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