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+

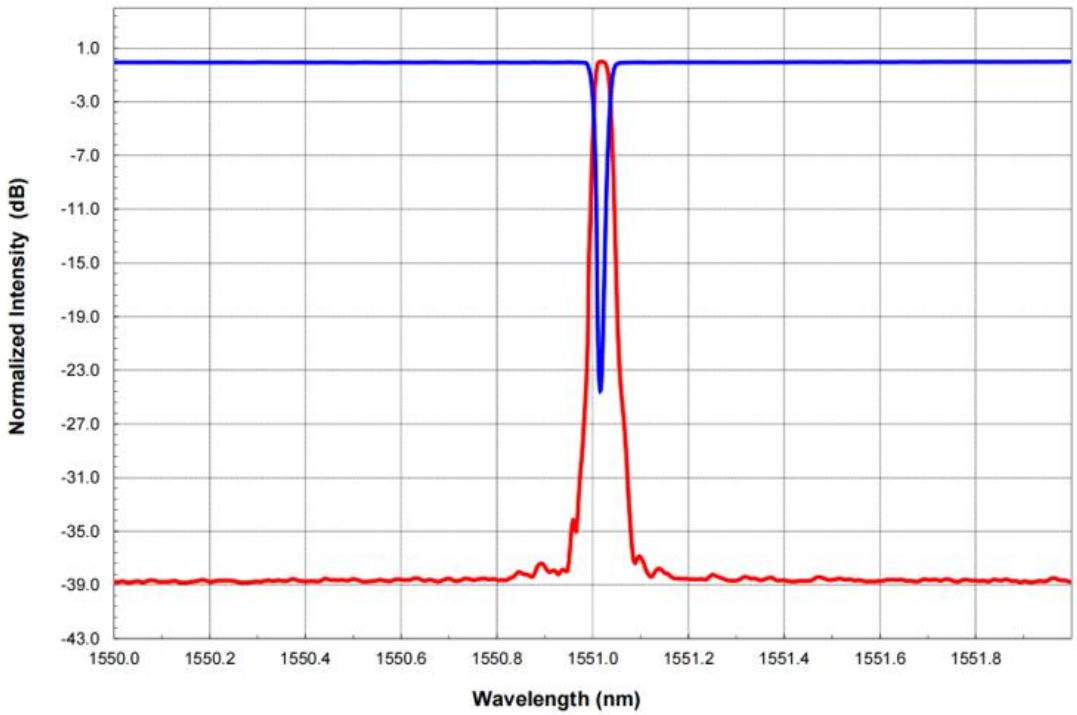
General Parameters

Technical Parameters

Name:	Fiber Bragg Grating			
			Temperature:	23℃
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/℃
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

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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