

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

● Part Number

NBFBG-1551.08-004-99-01-SA

● Product features

Ultra-narrow bandwidth、 All-fiber structure、 Wavelength selectable、 Wide

stopband width、 Different fiber types available

● Application area

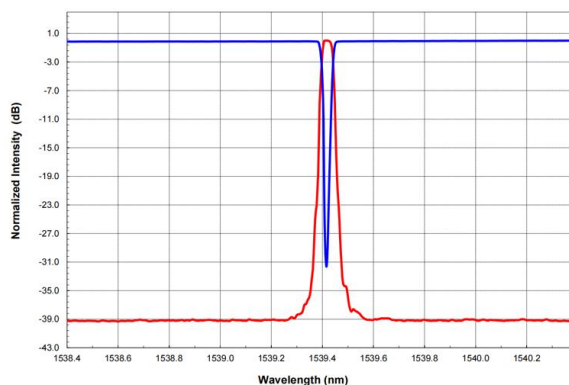
Fiber laser noise filtering 、 Lidar spectral noise filtering 、 High-resolution

Raman spectroscopy analysis、 Fluorescence imaging

Parameters

Technical Parameters

Model:	NFBFG-1551.08-004-99-01-SA	Date:	28/09/2022
Name:	Fiber Bragg Grating		
S/N:	5618-1	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

NBFBG- □□□□-☆-☆☆-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: ± 0.1 nm

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