

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.

● Part Number

NBFBG-1539.4-004-99-01-SA

● Product features

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

stopband width、 Different fiber types available

● Application area

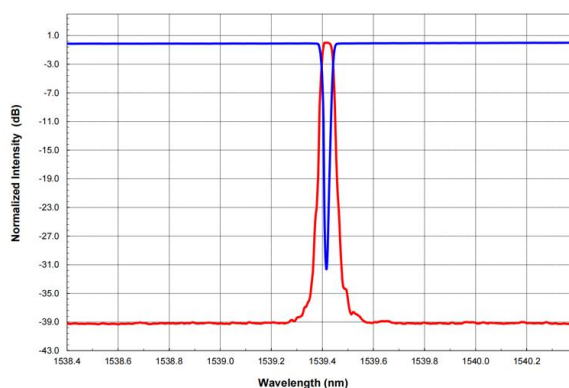
Fiber laser noise filtering 、 Lidar spectral noise filtering 、 High-resolution

Raman spectroscopy analysis、 Fluorescence imaging

Parameters

Technical Parameters

Model:	NBFBG-1539.4-004-99-01-SA		Date:	28/09/2022
Name:	Fiber Bragg Grating			
S/N:	5604-1		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

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: $\pm 0.1\text{nm}$

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