

AOS broadband FBG filter 1550nm



- **Product Description**

Utilizing "chirped" (linear variation of the period within the FBG structure) fiber Bragg grating technology, we are able to provide FBGs with very wide bandwidth and high rejection. We can offer a wide range of center wavelengths, bandwidths and reflectivities.

- **Product features**

Flexibility and customization; Physical and Environmental Characteristics

- **Part Number**

MP-FBG-1550-30-FA

● Application area

WDM 1300/1550nm band-stop filter、 ASE filtering, noise suppression、

Fiber internal reflector

● Core parameters

Wavelength	Bandwidth	Connector
1550nm	30nm	FC/APC

● General Parameters

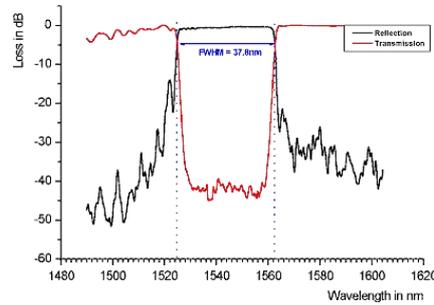
Parameter

Parameter	Advanced	Standard
Operating wavelength	800 .. 1620nm	1535 ..1565nm
Reflectivity	5 .. 99.9%	
FWHM	2 .. 70 nm	
Insertion loss	<0.15 dB (*)	
Terminal connection method	Bare fiber、 FC/PC、 FC/APC、 ST、 SC/PC、 SC/APC、 DIN、 SMA	
Packaging	3mm standard tube (different lengths), boxed	

On the lower wavelength side of the FBG, the IL can be significantly higher due to radiation pattern issues.



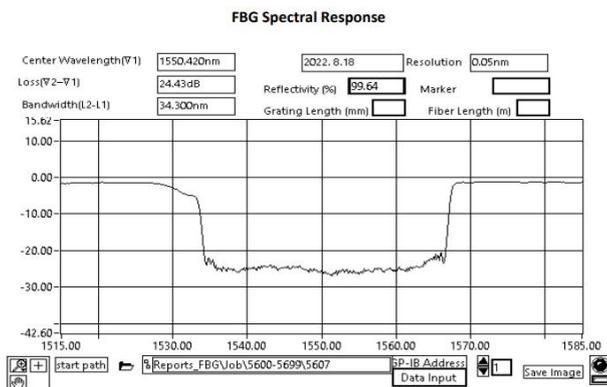
Spectral characteristics (example)

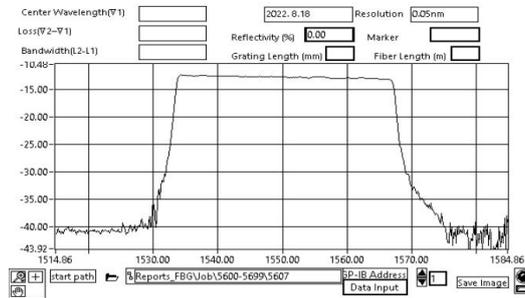


Product Test Report

Parameters	Requirement	Measurement	Unit
Center Wavelength	~1550	1550.42	nm
Bandwidth (FWHM)	>=30	34.3	nm
Reflectivity	>95	99.64	%
side lobe Suppression			dB
Conditions	SMF-28e Fiber,FC/APC Connectors		

Fiber Bragg Grating Spectral Response



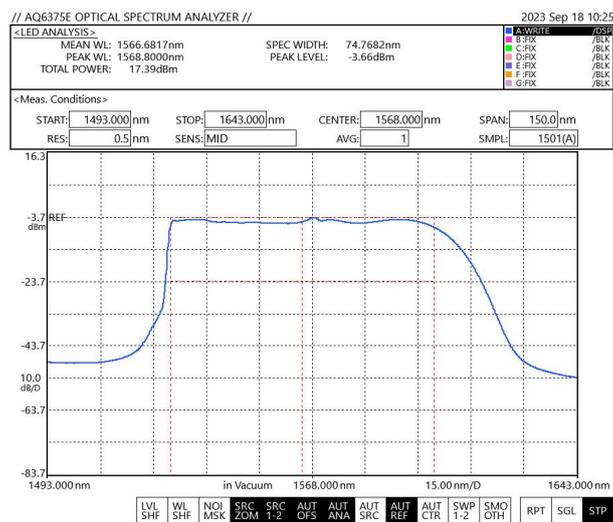


Test report 2023/09/18

Purpose of the experiment Test 1550nm broadband FBG filter

Experimental instruments 1550nm broadband FBG filter, 1550nm ASE light source, spectrometer, optical circulator.

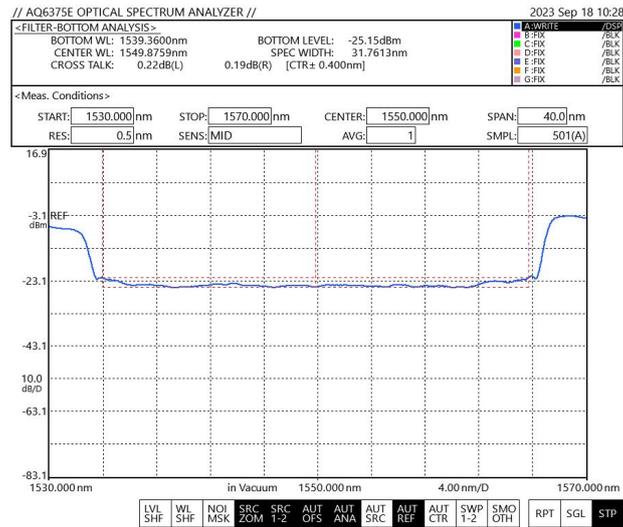
1、 Test light source spectrum





2. Measured spectrum

Transmission spectrum



Reflectance spectrum

