

# 1627nm broadband fiber Bragg grating filter



## ● Product Description

Idealphotonics introduced coherent excimer writing technology and technically recognized packaging technology to solve the reliability problems of fiber grating products. It also used its excellent holographic phase mask technology Xmask™ and grating writing technology to achieve technical breakthroughs in many products in the field of FBG technology. Products include gain flattening filters (GFF), single-channel and multi-channel dispersion compensators, dispersion slope compensators, pump laser frequency stabilization, gratings for fiber lasers, etc. The company introduced Yokogawa high-precision spectrometers and we have achieved a spectrum for each fiber, so that customers can better understand the performance of the products. Our special wavelength fiber gratings have been effectively verified in some special application fields, providing a large number of reliable special wavelength products for domestic scientific research fields.

## ● Part Number

SWFBG-1627-02-90-02-SA

## ● Product features

Wavelength range: 400-1200nm 1600-2300nm 、 LR: 5-99% (0.1-10nm bandwidth)、 Operation power: < 1W、 Different packaging types available、 Different fiber types available

## ● Application area

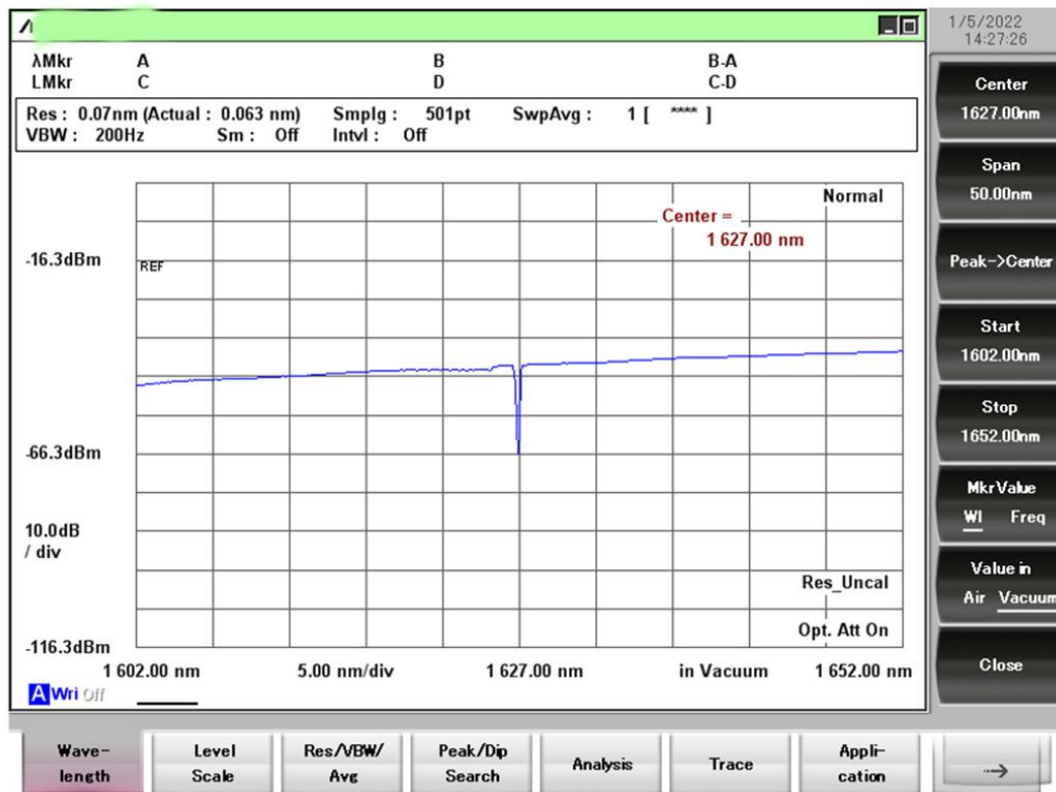
Narrowband selective wavelength filtering 、 High stability reliability field, temperature stress change 、 Chirp dispersion compensator, WDM filter 、 Transportation, energy, civil engineering, communication, medical field

## Parameter

Test temperature @25°C

Parameters	Specification	Unit
Custom center wavelength at room temperature	400-1200nm 1600-2300nm	nm
Center wavelength tolerance	$\leq 0.5$ nm	nm
Reflection bandwidth tolerance	$\pm 0.1$	nm
FWHM	0.1 - 10 optical( $\pm 0.05$ nm)	nm
Reflectivity	5 - 99 ( $\pm 5$ %)	%
Max. tensile stress	5000	$\mu \epsilon$
Reflectivity tolerance	$\pm 5.0$	%
Side mode suppression ratio (SMSR)	>10	dB
Stress sensitivity	$\sim 1,3$ (@1550 nm)	pm/ $\mu$
Temperature stability	$\sim 10$ (@1550 nm)	pm/ $^{\circ}$ C
Pigtail length (each end)	0.5m	
Operating temperature	-40 $^{\circ}$ C to 150 $^{\circ}$ C for standard fibers	
Fiber connectors	FC/APC,bare fiber (other can customizable)	
Packaging type	Recoating and packaging	
Core/cladding diameter	9/250	um/um

## Test spectrum



## Ordering Information

SWFBG- □□□□-☆-☆☆-XX

□□□□: Wavelength

1660: 1660nm

532: 532nm

1742:1742nm

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1950: 1950nm

☆ : bandwidth

7: 7nm

12: 1.2nm

☆☆: Reflectivity

01:1% 10:10% 99:99%

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