

## 1310nm 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 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.

## ● Product features

Wavelength range: 1280-1318nm, 1520-1605nm、 LR: 5-99% (100-500pm bandwidth)、 Operating power: <1W、 Different packaging types available 、 Different fiber types available

## ● Part Number

MP-FBG-1310-0.1-BB

## ● 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

## ● Core parameters

Center Wavelength	Bandwidth
1310nm	0.1-0.5nm

## ● General Parameters

Parameter

Test temperature @25°C

Parameters	Specification	Unit
Custom center wavelength at room temperature	1280-1318nm 1520-1605nm	nm
Center wavelength tolerance	$\leq 0.5$ nm	nm
Reflection bandwidth tolerance	$\pm 0.1$	nm
FWHM	0.1 - 0.5 Optional ( $\pm 0.05$ nm)	nm
Reflectivity	5 - 90 ( $\pm 5$ %)	%
Max. tensile stress	5000	$\mu\epsilon$
Reflectivity tolerance	$\pm 5.0$	%
Side mode suppression ratio (SMSR)	>10	dB
Stress sensitivity	~1,3 (@1550 nm)	pm/ $\mu$
Temperature stability	~10 (@1550 nm)	pm/ °C
Pigtail length (each end)	0.5m	
Operating temperature	-40 ° C to 150 ° 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