

NORTH PHOTONICS

Custom made Fiber Bragg Gratings order information

North Photonics LLC has more than one decade of solid experience in designing and fabricating Fiber Bragg Gratings for various industrial applications. Supported by our strong R&D team, these FBG's are made at our advanced fabrication facility situated in Albany, NY, USA. We also offer testing services for newly developed fibers at an unbeatable price.

Features

- Custom specification
- Large wavelength range
- Precise center wavelength matching

Application

- Telecommunication
- Biomedical
- Industrial
- Research

Specifications

Parameter	Value		Unit
Model	OEUFBG Uniform	OECFBG Chirp	-
Center Wavelength	450 - 2800		nm
CWL Tolerance	$\pm \geq 0.05$		nm
Bandwidth	0.01 - 4	0.5 - 100	nm
FWHM tolerance	$\pm \geq 0.05$	$\pm \geq 0.5$	nm
Reflectivity	1 - >99.9		%
% Tolerance	standard $\pm 5\%$, min 1%		
Power handling	* 500		mW
Fiber Type	SMF, PMF, Double Cladding, Active Fiber, ATN fiber, LMA fiber		-
Packaging	None, Athermal, Stainless Steel		-
Pigtail Type	Bare Fiber, 900 um Tubbing, 3 mm Tubbing		-
Side lobe suppression	10-35		dB
Fiber Length	**custom length		

*Indicated power handling can be increased up to 10 W with low index Recoating

**If not specified standard is 1m

Other specifications are available upon request
All specifications are subject to change without notice

North Photonics LLC. L240, CESTM, 251, Fuller Road, Albany, NY, USA, 12203
Email: sales@northphotonics.com, Website: www.northphotonics.com

Order Information

Please use this Product number to order uniform and chirped gratings.

OEUFBG / OECFBG - AA - aa - BB - bb - CC - cc

Code	Meaning	Unit	Note
AA	Center Wavelength	nm	
aa	CW +/-	nm	
BB	Bandwidth	nm	
bb	BW +/-	nm	
CC	Reflectivity	%	
cc	R+/-	%	0 means >

You can also specify additional options from this list when ordering.

Specification	Options	If not specified
Recoating	None Acrylate Low index	None
Package	None Steel tubing High power Athermal	None
Connectors	None FC/PC FC/APC ST/PC ST/APC LC/PC LC/APC	None
Pigtail type	Bare fiber 900µm tubing 3mm cable	Bare fiber
Fiber length	Custom	~ 1m
SLSR	Custom	~ 10dB

Sample Orders

Example 1

If I want the following specification for my FBG:

Uniform FBG

Center wavelength = 1550 ± 0.5 nm

Bandwidth = 0.5 ± 0.2 nm

Reflectivity > 90 %

Acrylate recoating

FC/APC connectors

900 μ m tubing

I can order giving the following PN and information:

OEUFBG - 1550 - 0.5 - 0.5 - 0.2 - 90 - 0

Acrylate

FC/APC

900 μ m tubing

Example 2

If I want the following specification for my FBG:

Chirped FBG

Center wavelength = 1064 ± 1 nm

Bandwidth = 10 ± 1 nm

Reflectivity = 50 ± 5 %

SLSR > 30 dB

I can order giving the following PN and information:

OECFBG - 1064 - 1 - 10 - 1 - 50 - 5

SLSR > 30 dB