

General Custom-made Fiber Bragg Gratings

Features:

- Custom specification
- Large wavelength range
- Precise center wavelength matching
- High side lobes suppression
- Different recoating materials
- Different packages

Applications:

- Telecommunication
- Sensing
- Biomedical
- Industrial
- Research
- Defense and Aerospace

Product description:

O/E Land Inc. has more than two decades 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 manufactured at our advanced fabrication facility situated in Montreal, Canada. We also offer testing services for newly developed fibers at an unbeatable price.

Parameter*	Unit	Custom-made Fiber Bragg Grating	
Model number	-	OEFBG-UNI-	OEFBG-CHI-
FBG type	-	Uniform	Chirped
Center wavelength	nm	450 - 2800	
Center wavelength tolerance (min)	nm	± 0.05	
FWHM	nm	0.01 – 4	0.5 – 100
FWHM tolerance (min)	nm	± 0.05	± 0.5
Reflectivity	%	1 – 99.9	
Reflectivity tolerance (min)	%	1	
Side lobes suppression	dB	20 – 30	
Fiber type		SM; PM; DCF; LMA; Active	
Fiber length	m	1; custom	
Fiber pigtail		Bare; 900 µm tubing; 3 mm jacket	
Fiber connector	-	None; FC; SC; ST; LC	
Packaging		None; Tubing; Standard; Athermal; High-power	
Recoating		None; Acrylate; Acrylate (low index); Polyamide	

* Other specifications are available upon request.

Ordering information:

Please use the following information when ordering Custom-made uniform and/or chirped FBGs.

Part/Model number:	
For Uniform FBGs: OEFBG-UNI-AA-aa-BB-bb-CC-cc	For Chirped FBGs: OEFBG-CHI-AA-aa-BB-bb-CC-cc
AA \pm aa	Center wavelength \pm tolerance [nm]
BB \pm bb	FWHM \pm tolerance [nm]
CC \pm cc	Reflectivity \pm tolerance [%] Note: cc=0, signifies ">CC"

You can also specify some additional options:

Part/Model number:	
For Uniform FBGs: OEFBG-UNI-AA-aa-BB-bb-CC-cc-[OPTIONS]	For Chirped FBGs: OEFBG-CHI-AA-aa-BB-bb-CC-cc-[OPTIONS]
Side lobes suppression (SLSR)	Please specify the exact SLSR 10 dB [if not specified]
Fiber type	Please specify the exact fiber type SMF-28e+ [if not specified]
Fiber length	Please specify the exact fiber length 1 m [if not specified]
Fiber pigtail	900 μ m tubing; 3 mm jacket None [if not specified]
Recoating	Acrylate; Acrylate (low index); Polyamide None [if not specified]
Package	Tubing; Standard; Athermal; High-power Bare fiber [if not specified]
Fiber connector	FC type: FC/PC; FC/APC SC type: SC/PC; SC/APC ST type: ST/PC; ST/APC LC type: LC/PC; LC/APC None [if not specified]

Examples:

Part/Model number:	
OEFBG-UNI-1550-0.5-0.5-0.2- 90-0- Acrylate-FC/APC-900μm tubing	OEFBG-CHI-1064-1-10-1-50-5-SLSR > 30 dB
Uniform FBG Center wavelength = 1550 \pm 0.5 nm Bandwidth = 0.5 \pm 0.2 nm Reflectivity > 90 % Acrylate recoating FC/APC connectors 900 μ m tubing	Chirped FBG Center wavelength = 1064 \pm 1 nm Bandwidth = 10 \pm 1 nm Reflectivity = 50 \pm 5 % SLSR > 30 dB