

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-100 | OEFBG-CHR-100 |
| 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-100-AA-aa-BB-bb-CC-cc | For Chirped FBGs: OEFBG-CHR-100-AA-aa-BB-bb-CC-cc |
| AA ± aa | Center wavelength ± tolerance [nm] |
| BB ± bb | FWHM ± tolerance [nm] |
| CC ± cc | Reflectivity ± 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-CHR-100-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 μm 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-100-1550-0.5-0.5-0.2- 90-0- Acrylate-FC/APC-900μm tubing | OEFBG-CHR-100-1064-1-10-1-50-5-SLSR > 30 dB |
| Uniform FBG Center wavelength = 1550±0.5 nm Bandwidth = 0.5±0.2 nm Reflectivity > 90 % Acrylate recoating FC/APC connectors 900μm tubing | Chirped FBG Center wavelength = 1064±1 nm Bandwidth = 10±1 nm Reflectivity = 50±5 % SLSR > 30 dB |



7639 Cordner
Lasalle, QC, Canada, H8N 2X2
Tel: 1-514-334-4588
Fax: 1-514-334-0216
www.o-eland.com