

NORTH PHOTONICS

High-Power Fiber Bragg Gratings

These High-Power Fiber Bragg Gratings (HP-FBGs) are specially designed and developed to use as cavity mirrors in high-power fiber laser systems. **North Photonics LLC** has more than one decade of solid experience in designing and fabricating FBGs for various industrial applications. Supported by our strong R&D team, these HP-FBGs are made at our advanced fabrication facility at Albany, NY, USA. We deliver HP-FBGs with custom specifications for an unbeatable price.

Features

- Custom specification
- Large wavelength range
- Precise center wavelength matching
- High power handling

Application

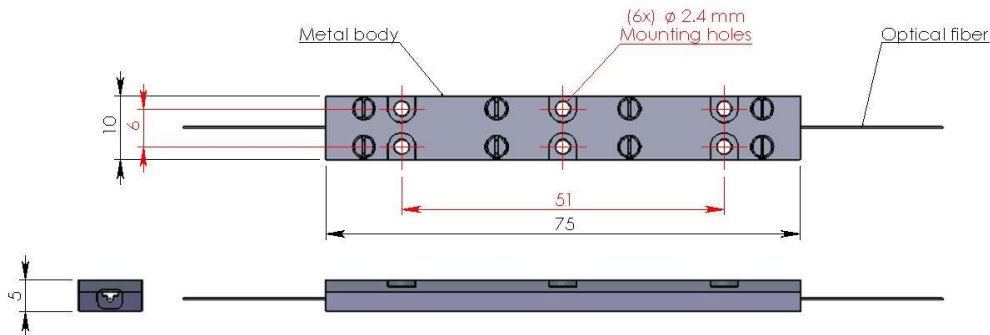
- High-power fiber laser
- Biomedical
- Industrial
- Non-linear optics

Specifications

Parameter	Value		Unit
Model	HR-FBG	OC-FBG	-
Center wavelength	900-2400		nm
CWL mismatch	≤0.1		nm
Reflectivity	>99	5-99	%
Power handling (pump)	Up to 1000*		W
Fiber type	SMF, PMF, DCF, LMA		-
Packaging	High-power 75×10×5		mm

*Depends on grating length. Low index recoating is highly recommended for power > 5W. We cannot offer warranty for most high power FBGs. Other specifications are available upon request

All specifications are subject to change without notice



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Order Information

OEXFBGHP - XXXX.XX - XX.XX - XX.X
U for uniform Center Bandwidth Reflectivity
C for Chirped Wavelength

- **XX** - **XX** - **XX.X** - **XX** - **XX**
Side lobe Suppression Package Pigtail Connector CWL Tolerance

- **XX** - **XX** - **XX**
FWHM Tolerance Reflectivity Tolerance Power handling

Sample Orders

OECBGHP-1550-10-90-20-high power pkg-1-FC/APC-0.1-0.5-5-1

-Chirped FBG @ 1550+/-0.1nm, FWHM: 10+/-0.5nm, Ref: 90+/-5%, High power package, 1m fiber length with FC/APC connectors and 1W power handling