

Fiber Laser Mirror Gratings

High Reflectors and Output Couplers for Fiber Lasers

ITF Technologies' FBG Mirrors are built upon our years of experience in Fiber Bragg Gratings manufacturing to provide reflectors written in the core of the optical fiber. These components features low thermal slope and tight matching between High Reflector and Output Coupler, for high power applications.

FBG Mirrors from ITF Technologies are suitable for pulsed and high power CW laser cavities. They can be manufactured in Single Mode fibers or Large Mode Area (LMA) fibers. Our manufacturing process ensures the best fundamental mode transmission, to maintain beam quality. They are offered in our high power package or with recoat-only.



KEY FEATURES

- Ultra-precise Wavelength Matching
- Wide Bandwidth & Reflectivity Range
- Wide Variety of Fiber Types
- High Power Handling
- ROHS Compliant

APPLICATIONS

- Fiber Lasers
- Industrial, Telecom & Research

FOR MORE INFO

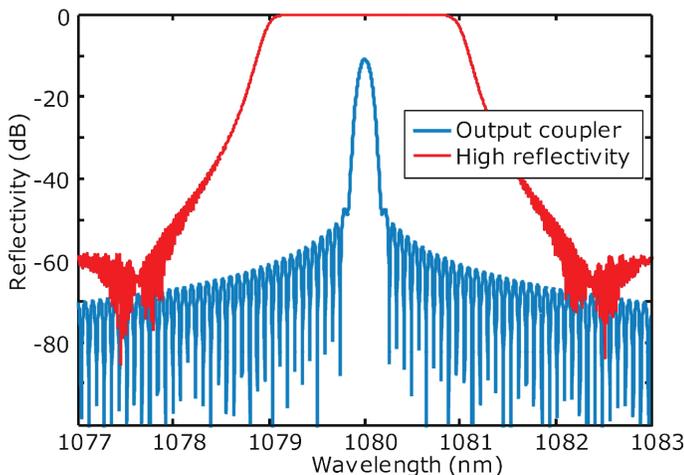
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HIGH REFLECTORS AND OUTPUT COUPLERS FOR FIBER LASERS

Wavelength (1)	1018 to 1120 nm		
Single Mode (LP01) Signal Reflectivity	3% (OC) - 99.5% (HR)		
Bandwidth (FWHM)	0.2 - 4 nm		
Wavelength Matching, HR-OC	0.2 nm		
Fiber Type (2), (3), (4)	125 um	250 um	400+ um
Power Handling - Low Index Recoat version (5), (6)	100 W	500 W	1500 W
Power Handling - Packaged Version (5), (6)	300 W	900 W	3000 W
High Power Package Dimensions	60.0 x 12.0 x 6.5 mm		
Thermal Slope °C/Watts (recoated, measured in air) (7)	0.2 (0.1 Typ.)		0.05 (0.015 Typ.)

Typical spectrum



NOTES:

- (1) Other wavelengths available around 1.5 um and 2.0 um
- (2) Fluorine free core
- (3) Single clad, double clad, or triple clad fibers
- (4) Some fibers are available in PM versions
- (5) Cladding Light, 915 nm, CW
- (6) Several grades are available, contact us for details
- (7) Relative to the injected pump power

Typical power handling presented

Custom designs and prototypes also available

ORDERING INFO

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