itf Technologies
Member of O-Net Group

One Name in Beam Quality

cybel LIGHTING THE WAY

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 Grating manufacturing to provide reflectors written in the core of optical fibers. Our new technology feature an even lower heating rate to address the continually rising power demands in industrial fiber laser 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

Sales: contact@cybel-llc.com Website: www.cybel-llc.com 62 Highland Avenue, Bethlehem, PA 18017 Phone: 610-691-7012

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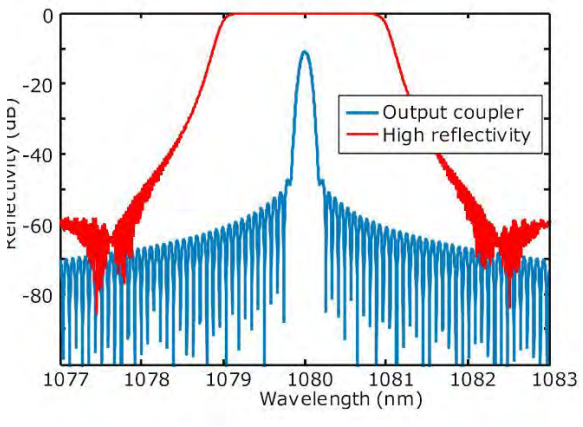
Fiber Laser Mirror Gratings

HIGH REFLECTORS AND OUTPUT COUPLERS FOR FIBER LASERS

1 um Fiber Laser Gratings

Wavelength (1)	1018 to 1120 nm		
Single Mode (LP01) Reflectity	10% (OC) - 99.5% (HR)		
Bandwidth (FWHM)	0.1 nm to 4+ nm		
Wavelength Matching, HR-OC	± 0.2 nm		
Fiber Type (2), (3), (4)	125 um	250 um	400+ um
Power Handling - (5), (6)	< 300 W	1500 W	up to 3000 W
Package Dimensions - (7)	60.0 x 12.0 x 6.5 mm		
Side Lobe Suppression Ratio	> 15 dB or better, as required		

Typical spectrum



2 um Fiber Laser Gratings

Wavelength (1)	1940 to 2050 nm		
Single Mode (LP01) Reflectity	10% (OC) - 99.5% (HR)		
Bandwidth (FWHM)	0.1 nm to 4+ nm		
Wavelength Matching, HR-OC	± 0.2 nm		
Fiber Type (2), (3), (4)	125 um	250 um	400+ um
Signal Power Handling - (5), (6)	30 W	30 W	>50 W
Package Dimensions - (7)	60.0 x 12.0 x 6.5 mm		
Side Lobe Suppression Ratio	> 15 dB or better, as required		

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) Recoated gratings also available

Typical power handling presented
Custom designs and prototypes also available

O-Net Communications

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