



MULTIMODE COMPONENTS

Fiber Laser Mirror Gratings

FBG Mirrors are based on the reflective properties of the Fiber Bragg Grating (FBG) written in the core of an optic fiber waveguide. FBG mirrors' principal property is to use a high reflector and low reflector to form a stable laser cavity having the lasing wavelength selected by the low reflector.

In addition to its many years experience in manufacturing reliable high performance FBGs in high volume, ITF Labs has worldwide leading technologies in multi-mode fiber coupling, optic test & measurement as well as mode field adaptation. ITF Labs has developed a family of FBG mirrors for fiber laser and high power amplifiers.

For more information on this or other products and their availability, please contact our customer service at **514.748.4848** (Int'l) / **1.888.922.1044** (Canada and USA only) or via e-mail at info@itflabs.com

KEY FEATURES

- **Ultra-precise Wavelength Matching**
- **Wide Bandwidth & Reflectivity Range**
- **Wide Variety of Fiber Types**
- **Telcordia 1221 Qualified**
- **High Power Handling**
- **RoHS Compliant**

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SPECIFICATIONS

PARAMETERS	SPECIFICATIONS	
Center Wavelength*	980, 1064, 1080, 1310, 1480 bands, C, L-Band	nm
FWHM Bandwidth	0.02 – 5	nm
Reflectivity	0.1 to 99.99	%
Insertion Loss out of Ref Band	< 0.5	dB
Grating Profile	uniform, Apodized, Chirped	
Recoating	Acrylate, Low Index Acrylate for DCF Fiber	
Fiber Type	SM, MM, PM, PM-MM, LMA, DCF	
Fiber Length	> 0.5 each side	m
Proof Test	> 100	Kpsi
Operating Temperature	-40 to 85	°C
Side Lobe Suppression Ratio	>25	dB
Power Handling	Fiber dependent, 100W cw demonstrated	W

¹Higher power options are available in custom configurations.

* Custom specifications available from ITF Labs.

ORDERING INFORMATION

ITF Labs can custom produce your gratings according to your specifications in low and high volume.



ITF Labs

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