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

Fiber Bragg grating (FBG) is a distributed reflector constructed in an optical fiber short segment that allows reflecting particular wavelengths and transmits the rest of them. The periodic variation of the fiber core refractive index generates a wavelength-specific dielectric mirror, which allows reflecting specific wavelengths. FBG can be used as a high reflector (HR) and output coupler (OC) to make a laser cavity in a fiber laser. Rare earth doped optical fiber increases the

## High power Components

## PM Components

### Circulator & Isolator

## 1064nm Components

## Pump Combiner

## Fused Products

## WDM Products

Hybrid Device for EDFA

## FBG Products

## Patchcord & Attenuator



Name: Fiber Laser Mirror Gratings /Fiber Bragg Gratings for Laser

Class: FBG Products

Type: [Fiber Bragg Grating Products](#)

Price: *As low as*

**Inquire Now**



## Features

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

## Applications

- Fiber lasers
- Pump Lockers
- Sensors

## Performance Specifications

Parameters	Values
Center Wavelength(nm)	1018nm, 1053nm, 1064nm, 1080nm, 1550nm, 1950nm, 2020nm, 2040nm
Wavelength accuracy	0.2nm
High Reector / Output Coupler	HR
Reflectivity	≥99%
Bandwidth	1~3nm
SLSR	≥15dB
Recoating/Package	Polyimide/60x12x6mm(High power:>50W)
Fiber Type	10/125 DCF,15/130DCF, 20/125 DCF,25/250 DCF,30/250 DCF,20/400 DC Fiber, PM or non-PM types are available
Power Handling(core)	20W,50W,100W
Fiber Termination	No connector

Pigtail Length at both side	>0.8 meter (Typical)
Operating Temperature	-40 to +100°C
Storage Temperature	-40 to +100°C

\* Above specification may change without notice.

Order information

P/N: FBGL-①-②-③-④-⑤-⑥

①	②	③	④	⑤	⑥
Wavelength	Power Handling	Fiber Type	Reflectivity(HR/OC)	Bandwidth(HR/OC)	Bare Fiber Length
1018:1018nm	20:20W	XX/XX/XX/XX(core/clad/core	99/10:>99%/~10%	10/05:1.0/0.5nm	08:0.8m
1064:1064nm	50:50W	NA/clad NA)( add PM if PM	99/20:>99%/~20%	20/05:2.0/0.5nm	XX:Other
1080:1080nm	XX:Other	fiber))	XX/XX		
1550:1550nm					
1950:1950nm					
XX:Other					

Part Number Example: FBGL-1064-100-20/400/006/046-99/10-10/05-08

Description: Fiber Bragg Gratings for fiber laser,1064nm ,100W Handling power, 20/400um, NA0.06/0.46 fiber,Reflectivity(HR/O>99%/~10%,Bandwidth(HR/OC):1.0/0.5nm,0.8m length bare fiber .

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Our Products:

- FWDM

980/1550nm WDM

CWDM

DWDM

Mini CWDM

1064nm Bandpass Filter
- Circulator

Isolator

Fused Coupler

Fused WDM

Pump Combiner
- PM Circulator

PM Isolator

PBC/PBS

PM WDM

PM Coupler
- 1064nm High Power Isolator


980nm High Power Isolator


High Power Circulator


Pump Laser Protector


Fiber End Caps/Cladding Power Stripper

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