



## 1.5um High Power Chirped FBG for Fiber Laser

### ● Description

GKER high-quality 1.5um fiber grating reflectors (also called Fiber Laser cavity mirrors) are written in specialty double clad optical fiber with optimized chirped Fiber Bragg Grating (FBG) writing technology. They are specially designed for 1.5um high power continuous and pulsed fiber lasers, suitable for single-mode fiber to the large mode field (LMA) fiber, the pump power handling capacity can reach more than 50W. GKER can provide various bandwidths and accurately matched high and low reflectivity gratings for different applications.

### ● Key Features

- Extremely Low Temperature Slope
- High Conversion Efficiency
- High Power Handling
- Outstanding Reliability
- Wide Variety of Fiber Types

### ● Applications

High Power Fiber Laser

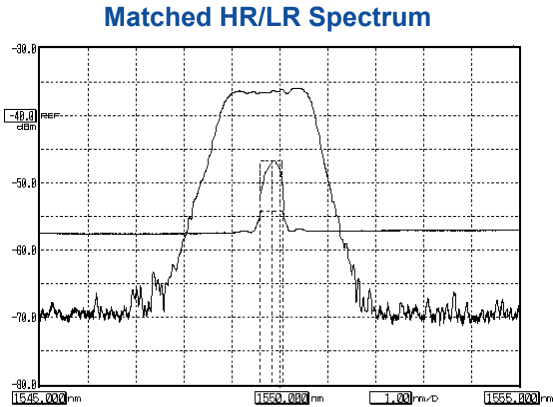
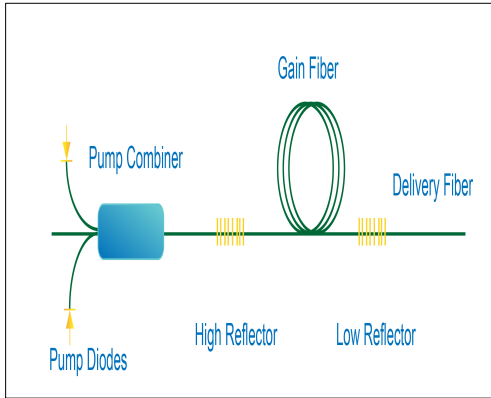
Pulsed Fiber Laser

### ● Specifications

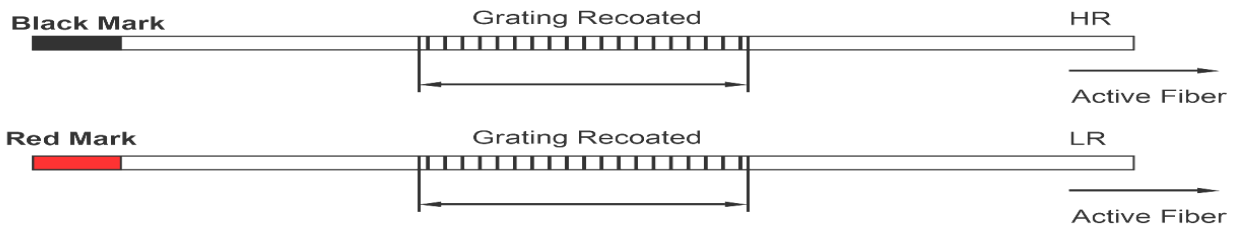
Parameter	Unit	Specification
Typical Central Wavelength1	nm	1550, 1560
Tolerance on Central Wavelength	nm	1
Type of Reflector		HR      LR
Peak Reflectivity2	%	>99.5    10±2
FWHM2 (3dB)	nm	0.5~3    0.1~1
Side Mode Suppression Ratio	dB	20        10
Wavelength Mismatch (LR to HR)	nm	0.2
Fiber type3		SM-1550-GDF
Power Handling of Pump	W	50
Input/output Fiber Length	m	1
Package Type		Recoated Only

1. Other central wavelength available on request.
2. Other bandwidth and reflectivity available on request.
3. Other fiber types available on request.

### ● High Power Fiber Laser Configuration



### ● Package Dimensions



### ● Ordering Information

GK-FBG-ER-①-②-③-④-⑤-⑥

①: Package

M: Metal Housing  
R: Recoated

②: Grating Type

H: High Reflector  
L: Low Reflector

③: Central Wavelength in nm

550: 1550nm

④: Fiber Type

0912: 9/125um, SM-1550-GD  
(NA=0.12/0.46)

⑤: Bandwidth in nm

02: 2nm

⑥: Reflectivity in %

99: 99%  
10: 10%