

1.0um High Power Chirped FBG for Fiber Laser

Product Description:

GKER high-quality 1.0um 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 1.0um 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 3000W.

GKER can provide various bandwidths and accurately matched high and low reflectivity gratings for different applications. They are offered in heat dissipative package or recoated only.

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 Wavelength ¹	nm	1018, 1050, 1064, 1070, 1080, 1090	
Tolerance on Central Wavelength	nm	1	
Type of Reflector		HR	LR
Peak Reflectivity ²	%	>99.5	10±2
FWHM ² (-3dB)	nm	2~3±0.3	1±0.1
Side Mode Suppression Ratio	dB	20	10
Wavelength Mismatch (LR to HR)	nm	0.2	
Input/output Fiber Length	m	1	
Package Type		Recoated or High Power Metal Housing	

Notes:

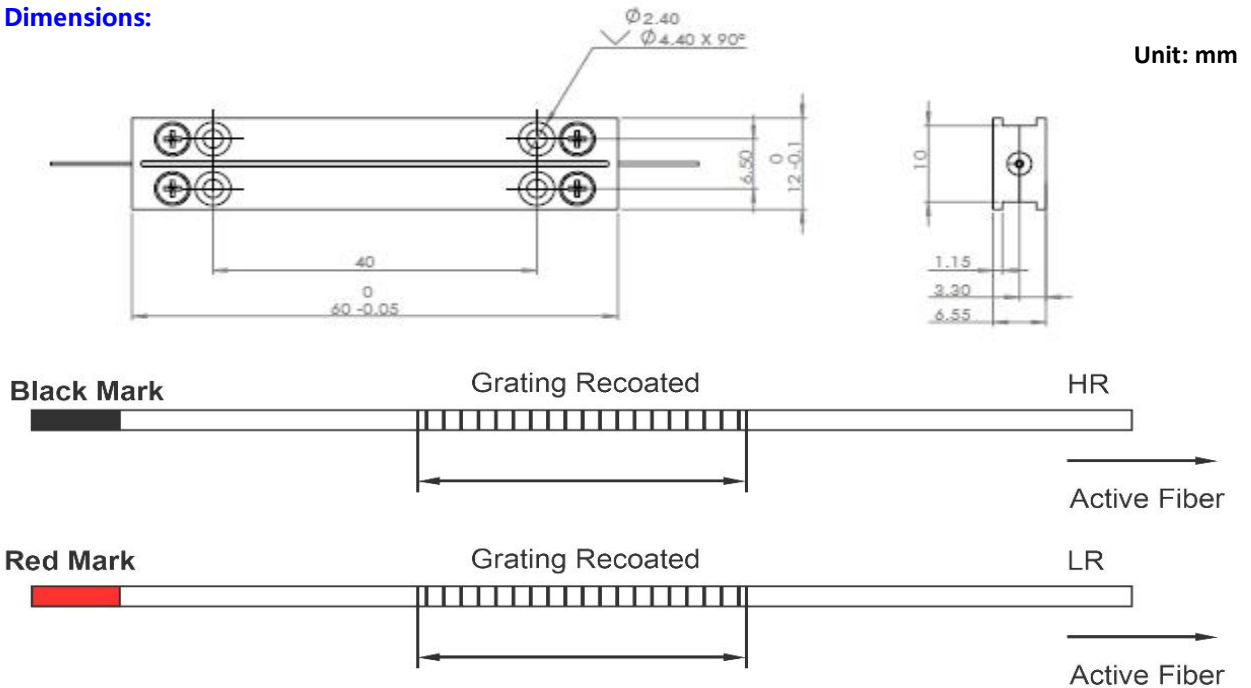
1. Other central wavelength available on request.
2. Other bandwidth and reflectivity available on request.

Fiber Types:

Fiber Core/ Cladding Diameter(um)	Power Handling of Pump and Signal (W)					Package	
	500/300	500/800	2000/1500	3000/2000	4000/3000	Recoated Only	Heat Dissipation Package
10/125	√					√	√
15/130	√					√	√
20/130	√					√	√
30/250		√				√	√
14/250			√			√	√
20/400				√	√	√	√
22/400				√	√	√	√
25/400					√	√	√

Notes: Other fiber types available on request.

Package Dimensions:



Ordering Information:

F-1111-2-333-44-5-66-77

- 1111: Fiber Type 1111
1012: 10/125um NA=0.08/0.46; 2040: 20/400um NA=0.065/0.46; 2540: 25/400um NA=0.065/0.46
- 2: Grating type
H: High Reflector
L: Low Reflector
- 333: Central Wavelength in nm
070: 1070nm
- 44: Bandwidth in nm
02: 2nm
- 5: Package
M: Metal Housing
R: Recoated
- 66: Reflectivity in %
99: 99%
10: 10%
- 77: Handling Power of Signal
02: 2000W
03: 3000W