

1.5um High Power Chirped FBG for Fiber Laser

Product Description:

Connet 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.

Connet can provide various bandwidths and accurately matched high and low reflectivity gratings for different applications.

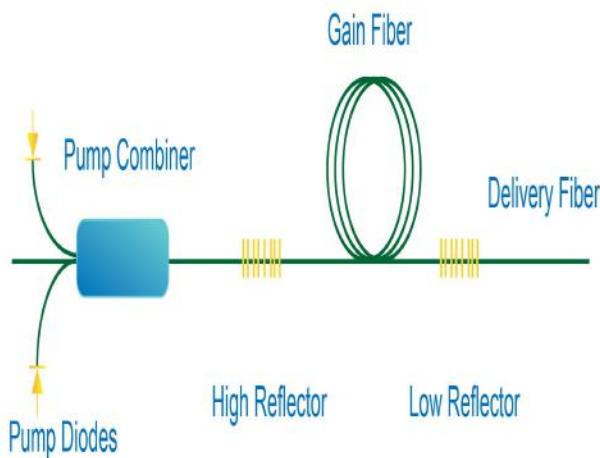
Features:

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

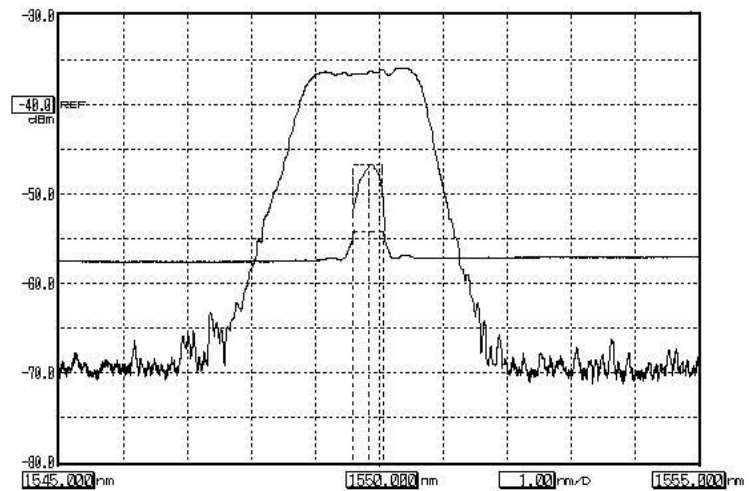
Applications:

- High Power Fiber Laser
- Pulsed Fiber Laser

High Power Fiber Laser Configuration:



Matched HR/LR Spectrum:



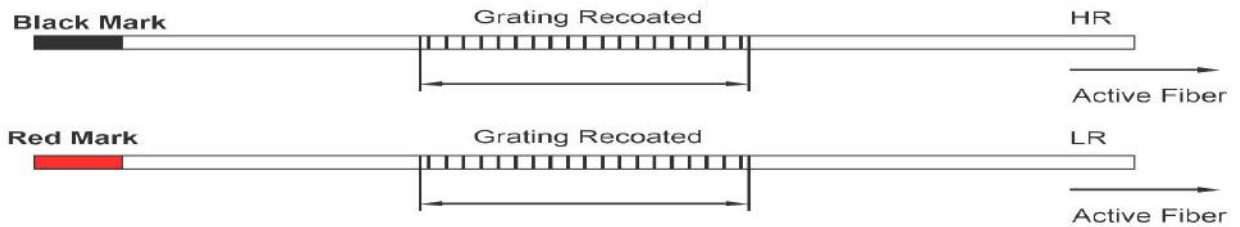
Specifications:

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

Notes:

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

Package Dimensions:



Ordering Information:

F-1111-2-333-4-5-66

- 1111: Fiber Type
0912: 9/125um, SM-1550-GDF (NA=0.12/0.46)
- 2: Grating Type
H: High Reflector
L: Low Reflector
- 333: Central Wavelength in nm
550: 1550nm
- 4: Bandwidth in nm
2: 2nm *05: 0.5nm
- 5: Package
M: Metal Housing
R: Recoated
- 66: Reflectivity in %
99: 99%
10: 10%