



## High Power ClearCut Grating (HPCG Series)

Rev11A

The high power ClearCut Grating products are low insertion loss fiber bragg gratings for high power fiber lasers. With AFR's 'ClearCut' designing and packaging, the devices can handle more than 1.5 kW pump power and 1.0 kW signal power. Available for customizing.

### Key Features

- High Power Handling
- ClearCut Grating' Designing for Fiber Lasers
- Outstanding Reliability
- 1.0 to 3.0 nm Bandwidth for Customizing

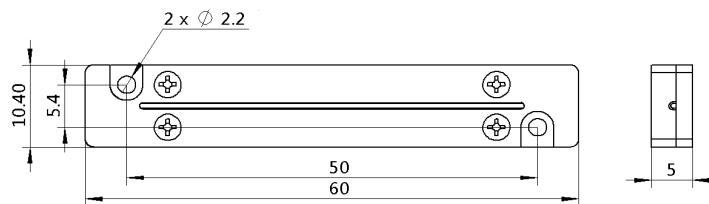
### Applications

- Continue Wave Fiber Laser
- High Power Fiber Laser
- Pulsed Fiber Laser

### Specifications

Parameter	Unit	Value	
Center Wavelength	nm	1080±1	
Max. Wavelength Mismatch (OC Relative HR)	nm	0.2	
Min. Core Signal Power Handling	W	1000	
Min. Clad Pump Power Handling	W	1500	
High Reflector (HR) / Output Coupler (OC)		HR	OC
Peak Reflectivity	%	> 99.0	5-15
Reflection Bandwidth (FWHM)	nm	2~3	1.0
Tolerance on Reflection Bandwidth	nm	0.3	0.1
Min. Side Mode Suppression Ratio	dB	20	10
Fiber Type		Nufern LMA-GDF-20/400-M, 0.06/0.46 NA	
Pigtails Length (on Each Side)	m	1	
Package Dimensions	mm	60 (L) × 10.4 (W) × 5 (H)	
Operating Temperature (Active Cooling Required)	°C	-10 to +50	
Storage Temperature	°C	-40 to +85	

### Package Dimensions



Units: mm

### Ordering Information

HPCG-P1000-①①①①-②②-③-④

①①①①: Center Wavelength

1080 - 1080 nm

SSSS - Specify

②②: Bandwidth

02 - 2 nm

03 - 3 nm

SS - Specify

③: Pigtails Length (on Each Side)

Q - 0.75 m

1 - 1 m

2 - 2 m

S - Specify