

Advanced Fiber Resources (HK), Ltd.

kW Package Free Clearcut™ Fiber Bragg Grating (PFCG Series)

Spec Review No.: SRXXX Date: Mar.12, 2019

• Continuous Wave Fiber Laser

• High Power Fiber Laser

Applications

The kW Package Free Clearcut[™] Fiber Bragg Grating products are ultra low insertion loss fiber bragg gratings for high power fiber lasers. With AFR's Clearcut designing and special process, the devices can handle more than 2.0 kW pump power and 1.5 kW signal power with recoated only.

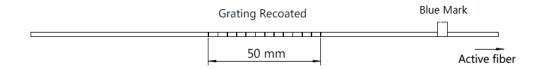
Key Features

- High Power Handling
- Package Free Designing/Ultra Low Temperature Slope
- Flexible and Good Mechanical Performance
- · Outstanding Reliability

Specifications

Parameter	Unit	Value		
Center Wavelength	nm	1080	± 1	
Max. Wavelength Mismatch (OC Relative HR)	nm	0.2		
Min. Core Signal Power Handling ¹	W	150	0	
Min. Clad Pump Power Handling	W	200	0	
Temperature Slope Suspended in Air ²	°C/W	≤0.015		
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	0.2 - 0.3	0.1	
Min. Side Mode Suppression Ratio	dB	20	10	
Fiber Type		LMA-GDF-20/400-M, 0.065/0.46 NA		
Package Dimensions	mm	Recoa	nted	
Min. Banding Radius	mm	75.0		
Storage Temperature	°C	-40 to	+85	

- 1. The grating area should be kept on active cooling plates. (The cooling temperature ≤25 °C)
- 2. For total power: the signal power in the core and the pump power in the cladding. (The slope efficiency is about 70 %) **Package Dimensions**



Ordering Information

PFCG-P2000-1111-22-3

 ①①①①: Center Wavelength
 ②②: Reflectivity Bandwidth
 ③: Pigtails Length (on Each Side)

 1080 - 1080 nm
 02 - 2 nm
 Q - 0.75 m

 SSSS - Specify
 03 - 3 nm
 1 - 1 m

 SS - Specify
 S - Specify

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^{*}Clearcut is a product trade mark of AFR representing an unique technology used in its FBG products.

