



ClearCut 2 μm Series Fiber Bragg Grating (HPCG Series)

Rev 11D

Description

The ClearCut 2 μm Series Fiber Bragg Grating products are ultra low insertion loss fiber bragg gratings for high power fiber lasers. With AFR's ClearCut design and special process, the FBG can handle high power laser around 2 μm . Custom configurations are available.

Key Features

- High Power Handling
- Low Temperature Slope
- Exceptional Reliability

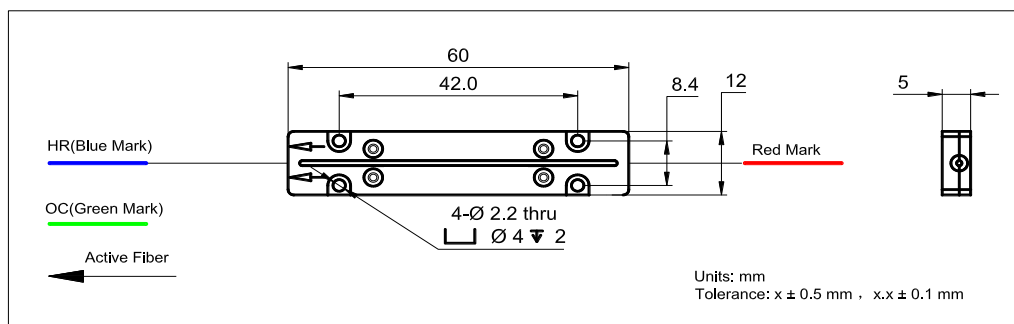
Applications

- Fiber Laser

Specifications

Parameter	Unit	Value		
Center Wavelength	nm	1907, 1917, 1923, 1936, 1940, 1980, 2013, 2080		
Tolerance on Center Wavelength	nm	± 1.0		
Max. Wavelength Mismatch (OC Relative HR)	nm	0.2		
High Reflector (HR)/Output Coupler (OC)	-	HR	OC	
Peak Reflectivity	%	≥ 99.0	(5.0 - 30.0) ± 2.0	
Reflection Bandwidth at 95%	nm	1.5 - 3.0	/	
Reflection Bandwidth at 50%	nm	/	0.5 - 1.0	
Tolerance on Reflection Bandwidth	nm	0.1 - 0.3	0.1	
Min. Side Mode Suppression Ratio	dB	20	10	
Fiber Core/Cladding Dimension	μm	10/130	15/250	25/400
Max. Core Signal Power Handling	W	50	100	150
Max. Clad Pump Power Handling	W	150	300	450
Package Dimensions	mm	60 (L) × 12 (W) × 5 (H)		
Cooling Bottom Plate Temperature	°C	≤ 25		
Storage Temperature	°C	- 40 to + 85		

Package Dimensions



Ordering Information

HPCG-①①①①.①-②.②/②.②-③③-④④/④④④-P⑤⑤⑤-⑥

①①①①.①: Center Wavelength

XXXX.X - XXXX.X nm

SSSS.S - Specify

②.②/②.②: Reflectivity Bandwidth HR/OC

X.X/X.X - X.X nm HR/X.X nm OC

S.S/S.S - Specify

③③: Peak Reflectivity Of OC

XX - XX%

SS - Specify

④④/④④④: Fiber Core/Cladding Dimension

XX/XXX - XX μm /XXX μm

SS/SSS - Specify

⑤⑤⑤: Pump Power Handling

XXX - XXX W

SSS - Specify

⑥: Pigtails Length (Each Side)

A - 1 m

B - 1.2 m

C - 1.4 m

S - Specify

¹ClearCut is a product trade mark of AFR representing an unique technology used in its FBG products.