



1939nm ClearCut™ Fiber Bragg Grating (HPCG Series)

SRXXX

The 19XXnm 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 high power laser around 19XXnm. Custom configurations available.

Key Features

- High Power Handling Around 19XXnm
- Low Temperature Slope
- Outstanding Reliability

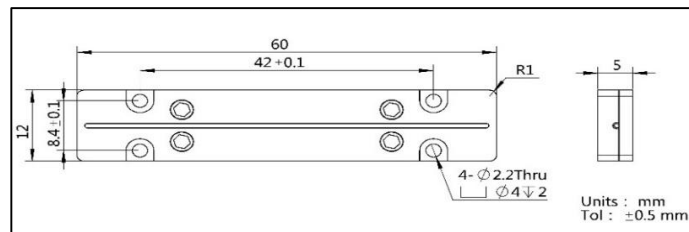
Applications

- Continuous Wave Fiber Laser
- High Power Fiber Laser
- Pulsed Fiber Laser

Specifications

Parameter	Unit	Value	
Center Wavelength	nm	1917,1925,1939	
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
Min. Core Signal Power Handling	W	100	
Min. Clad Pump Power Handling	W	200	
Fiber Type		PM or Non-PM	
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-①①①①.①-②.②/②.②-③③-④④/④④④-⑤-P⑥⑥⑥⑥-⑦

①①①①.①: Center Wavelength XXXX.X - XXXX.X nm	②.②/②.②: Reflectivity Bandwidth HR/OC X.X/X.X - X.X nm HR/X.X nm OC	③③: Peak Reflectivity of OC XX - XX%
SSSS.S - Specify	S.S/S.S - Specify	SS - Specify
④④: Fiber Core/Cladding Dimension XX/XXX - XX μm/XXX μm	⑤: Fiber Type N - Non-PM P - PM	⑥⑥⑥⑥: Pump Power Handling XXXX - XXXX W SSSS - Specify
SS/SSS - Specify		⑦: Pigtails Length (Each Side) A - 1 m B - 1.2 m C - 1.4 m S - Specify

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