Advanced Fiber Resources (HK), Ltd.

ClearCut™ 1939 nm Series Fiber Bragg Grating (HPCG Series)

Rev 11

Description

The ClearCut™ 1939 nm Series 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
- 19XX nm Low Temperature Slope
- Outstanding Reliability

Applications

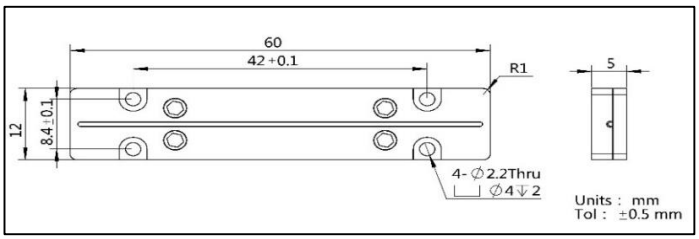
- Continuous Wave Fiber Laser
- High Power Fiber Laser
- Pulsed Fiber Laser

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
Core Signal Power Handling[1]	W	⩽ 100	
Clad Pump Power Handling[1]	W	⩽ 300	
Fiber Type	-	Customized	
Package Dimensions	mm	60 (L) × 12 (W) × 5 (H)	
Cooling Bottom Plate Temperature	℃	⩽ 25	
Storage Temperature	℃	- 40 to + 85	

[1]Power Handling depends on fiber type.

Package Dimensions



Ordering Information

HPCG-①①①①.①-②.②/②.②-③③-④④/④④④-P⑤⑤⑤-⑥

①①①①.①: Center Wavelength	②.②/②.②: Reflectivity Bandwidth HR/OC	③③:Peak Reflectivity of OC
XXXX.X - XXXX.X nm	X.X/X.X - X.X nm HR/X.X nm OC	XX - XX%
SSSS.S - Specify	S.S/S.S - Specify	SS - Specify

④④:Fiber Core/Cladding Dimension	⑤⑤⑤: Pump Power Handling	⑥: Pigtails Length (Each Side)	
XX/XXX - XX μm/XXX μm	XXX - XXX W	A - 1 m	B - 1.2 m
SS/SSS - Specify	SSS - Specify	C - 1.4 m	S - Specify

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