



Raman Scattering Suppressor ClearCut™ Fiber Bragg Grating (RSS-FBG Series)

Rev 11C

Description

The Raman Scattering Suppressor 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 kilowatt level pump power and signal power with recoated only. It is the only cost-effective solution that eliminates the SRS at its source and enables immunity from back reflection from the work piece.

Key Features

- High Power Handling
- Flexible and Good Mechanical Performance
- Outstanding Reliability

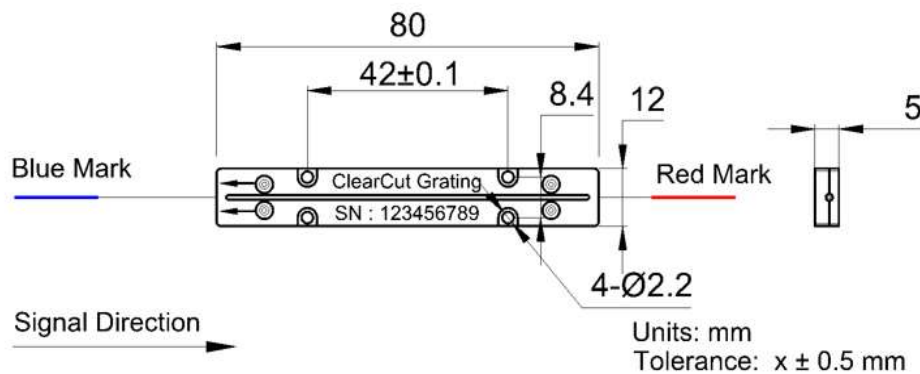
Applications

- Continuous Wave Fiber Laser
- High Power Fiber Laser

Specifications

Parameter	Unit	Value			
Passband Center Wavelength	nm	1080			
RSS Wavelength	nm	1132 ± 10			
Max.Insertion Loss(Passband Center Wavelength)	dB	0.2			
Min.Attenuation(RSS Wavelength)	dB	20			
Min.Return loss(RSS Wavelength)	dB	25			
Fiber Core Dimension	µm	10	14	20	25
Max. Core Signal Power Handling	W	300	2000	3000	4000
Max. Core RSS Power Handling	W	3	20	30	40
Fiber Cladding Dimension	µm	125	250	400	
Max. Clad Pump Power Handling	W	300	2000	3000	
Package Dimensions	mm	80 (L) × 12 (W) × 5 (H)			
Storage Temperature	°C	- 40 to + 85			

Package Dimensions



Ordering Information

TFBG-①①①①-②②②②-③-④④/④④④-P⑤⑤⑤⑤-⑥

①①①①: RSS Wavelength 1132 - 1132 nm	②②②②: Passband Center Wavelength 1080 - 1080 nm	③: Fiber Type N - Non-PM P - PM
SSSS - Specify	SSSS - Specify	⑥: Pigtails Length (Each Side) A - 1 m B - 1.2 m C - 1.4 m S - Specify (≤ 1.7 m)
④④/④④④: Fiber Core/Cladding Dimension 20/400 - 20 µm/400 µm	⑤⑤⑤⑤: Signal Power Handling 3000 - 3000 W	
SS/SSS - Specify	SSSS - Specify	

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