

HIGH-POWER FIBER BRAGG GRATING

Coherent's high-power fiber Bragg gratings (FBGs) are characterized by their high performance and stability, precise wavelength control and low insertion loss making them ideal for high-power fiber lasers. They feature low thermal slope with our high-power package and can handle kW-level pump and signal power. Custom designs and prototypes are available.



FEATURES

- Excellent wavelength control
- Good performance and stability
- High power handling
- Customization available

APPLICATIONS

- High-power fiber laser
- Industrial

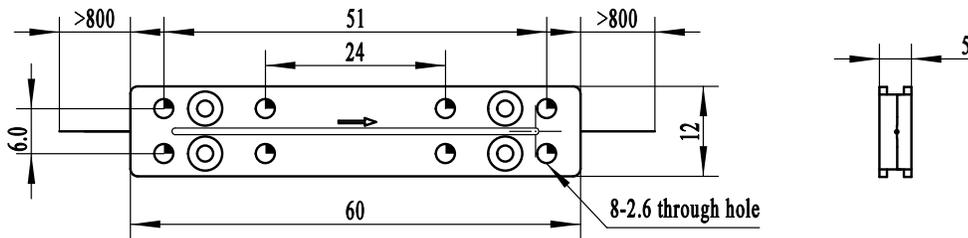
HIGH-POWER FIBER BRAGG GRATING

Specification

Parameter	Unit	Typical Value	
		High Reflector (HR)	Output Coupler (OC)
Centre wavelength, CWL*	nm	1064 / 1070 / 1073 / 1080	
Peak reflectivity, R	%	≥ 99.0	8 ~ 12
-3dB bandwidth, FWHM	nm	2.0 ±0.2 / >3.0	1.0 ±0.1
Side-lobe suppression, SLSR	dB	≥ 20	≥ 10
Wavelength matching, DCWL	nm	≤ 0.2	
Fiber type	/	20/400 0.065/0.46NA	
Finished pigtail length	m	≥ 0.8 or customized	
Core signal power handling	W	≥ 2000	
Clad pump power handling	W	≥ 3000	
Package	/	High-power package or No-package 60mm (L) * 12mm (W) * 5mm (H)	
Operating temperature (Cooling plate temperature)	°C	≤ 25	
Storage temperature	°C	-40 ~ +85	

*: Referenced to vacuum

Mechanical Dimensions



Units: mm

Schematic for Marking

