

# IXC-MIR-2000-HP

## HIGH POWER FIBER BRAGG GRATINGS @ 2µm

# FBG MIRRORS FOR HIGH POWER FIBER LASER APPLICATION





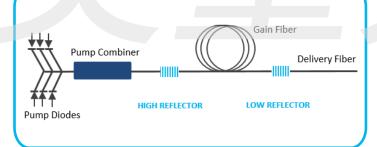
#### DESCRIPTION

- Cavity mirrors based on Fiber Bragg Grating (FBG) technology are key components for monolithic high brilliance CW fiber lasers.
- High and Low Reflection (HR/LR) mirrors are written in specialty double-clad optical fiber to promote high performance, robust and reliable singlemode Thulium fiber lasers.
- FBG specifically designed for high power handling.
- Optimized FBG writing process

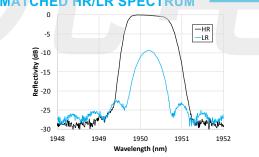
### **KEY FEATURES & BENEFITS**

- Higher laser efficiency
- Custom design
- Wavelength bandwidth
- Accurate wavelength matching
- Precision matched passive to active Fiber
- Heat Dissipative Package (IXC-DIS-PKG)
- Associated active fibers

### HIGH POWER FIBER LASER CONFIGURATION



### MATCHED HR/LR SPECTRUM



#### SPECIFICATIONS

Passive 10/130μm 0.15/0.46NA	
1950 and 2050 nm	
HR	LR
> 99 %	10 - 20 %
1 – 3nm	0.3 – 2nm
< +/- 0.2 nm	
Low refractive index polymer	
< 0.5 °C/W	
< 2.5 °C/W	
50 W	
150 W	
> 10dB	
	1950 and HR > 99 % 1 – 3nm < +/- (  Low refractive < 0.5 < 2.5 50

- Other types of fiber available upon request (PM fiber, other optical parameters), thermal slope and handling power TBC
- Other wavelengths upon request
- Heat dissipative package upon request
- Determined from suspended fiber in still air (fiber must be maintain <85°C)
- Maximum power derived from intrinsic FBG thermal slope