Erbius SF Product Line

Single-frequency CW 1550, 1560 (1535-1580 custom) nm fiber laser module Erbius-SF-15xxM series

Key features

- Single-frequency
- Ultra-narrow linewidth
- TEM_{00} mode
- Superior beam quality
- High power stability
- OEM integration
- Compact size

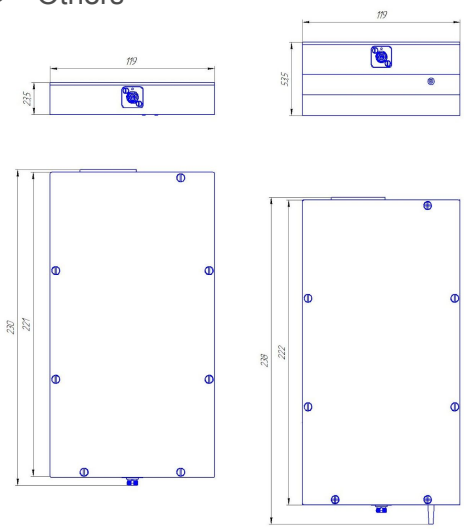
100mW module

1W module

Erbius-SF-M is a single frequency 1535 - 1580 nm fiber laser module intended for the OEM integration. Erbius-SF-M series key parameter is an ultra-narrow linewidth (< 1 kHz or < 10 kHz) based on the longitudinal single mode. Erbius-SF-M module comes in a very compact size housing which dimensions can be designed by the customers request. The control interface software provides optionally. This is a perfect tool due to excellent performance, high reliability, and lower cost.

Applications

- Atomic trapping and cooling
- Interferometry
- Optical sensing
- Others



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Erbius-SF-15**M specification

Parameter	Erbius-SF-1560M	Erbius-SF-1550M
Operating mode	CW, Single Frequency, TEM_{00}	
Central wavelength	1560 nm	1550 nm
Linewidth (FWHM)	< 1kHz	< 10 kHz
Nominal output power	20 mW, 50mW, 100mW, 200mW, 500mW,1000mW	
RIN level (RIN peak - app. 0.3 MHz)	<-100 @ peak	<-120 @ peak
Long term instability	< 1%	
Polarization	Linear or random	
Beam quality (M^2)	< 1.05	
Control interface	External	
Operating voltage	6 - 24 V	
Operation temperature	10 - 50 ^{0}C	
Storage temperature	- 40 - +70 ^{0}C	
MTBF	> 10.000 Hrs	
Operation Humidity	10 - 85 %	
Cooling	Forced air	
Dimensions (WxHxL)	119mm x 23.5mm x230mm (up to 100 mW), 119mm x 53.5mm x238mm	
Weight	< 3 kg	

- Optromix fiber systems can be customized by request.
- Warranty: 1 year.

Ordering Information:

Product Code	**Erbius-SF-15xxM-yyyy-cc**	xx:	Wavelength (nm)
		yyyy:	Output power (mW)
		cc:	Optical output: FC - FC adapter, CM - collimator, FS - free space, FA = FC/APC FU = SC/UPC, SA = SC/APC SU = SC/UPC

Information in this document is a subject to change without notice.

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