

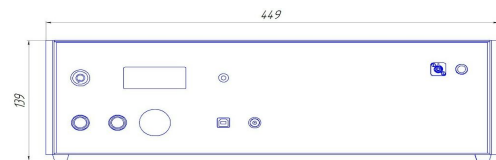


Erbium SF Product Line

Single Frequency CW 1560 (1535-1580) nm High Power fiber Laser Erbium-SF-1560-X-**-R(L)-** series

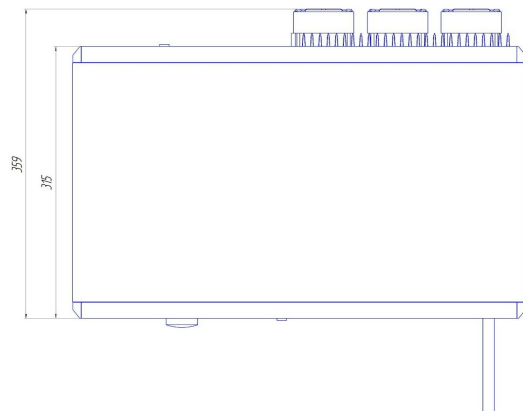
Key features

- Single Frequency
- Ultra Narrow linewidth (< 1 kHz)
- Wavelength 1535 -1580 nm
- High output power (1-10W)
- Superior beam quality ($M^2 < 1.05$)
- High power stability
- Thermal wavelength tuning



Application

- LIDAR
- Spectroscopy
- Optical tweezers
- Fiber optics sensing
- Second-harmonic generation
- Atomic trapping and cooling
- Measurements



Erbium-SF-1560-X-**-R(L)-** is single frequency high power low noise 1535 nm - 1580 nm Er-doped fiber laser with wide-range thermal wavelength tuning and optional active wavelength control. SF series key parameter is ultra narrow linewidth (< 1 kHz) based on longitudinal single mode. Erbium is controlled by the onboard digital display, switches, and adjustment controllers. The Erbium comes with a piezoelectric tuning with internal and external wavelength modulation at kHz bandwidth for locking purposes. A full set of control electronics and power supply are included to the delivery package. The Erbium SF 1560-X can be customized by collimator fiber termination. The control interface software provides optionally. This is a perfect tool for research labs due to excellent performance, high reliability, and lower cost.

Erbius-SF-15**-X**-R(L)** series specification

Parameter	Erbius-SF-1560X	Erbius-SF-1550X
Central wavelength	1560 nm	1550 nm
FWHM	< 1kHz	< 10 kHz
Beam quality (M ²)	≤ 1.05	
Nominal output power	1W , 5W, 10W	
Power stability	< ± 1 %	
RIN level (RIN peak - app. 0.3 MHz)	<-100 @ peak	<-120 @ peak
Polarization	Random, Linear(optional)	
Fast piezo tuning	available	
Piezoelectric Modulation Frequency	up to 10 kHz	
Thermal tuning range	500pm	
Beam quality (M ²)	≤ 1.05	
Control interface	Front panel with display, RS232 (optional), USB (optional)	
Operating voltage	220 -240 Volt, 50 -60 Hz, Single Phase	
Operation temperature	10 to 40 °C	
Storage temperature	- 40 to +70 °C	
MTBF	> 10,000 Hrs	
Operation Humidity	10 - 85 %	
Cooling	Forced air	
Dimensions (WxHxL)	449x139x359 mm	
Weight	≤ 12 kg	

- Optromix fiber laser systems can be customized by request.
- Optromix fiber laser systems are under 1 year warranty.



Ordering Information

Product Code	Erbius-SF-15xx-X-yy-p-cc	xx:	Wavelength (nm)
		yy:	Output power (W)
		p:	Polarization: R - random, L - linear
		cc:	Optical connector: CM - collimator, FA = FC/APC FU = SC/UPC, SA = SC/APC SU = SC/UPC

Information in this document is subject to change without notice.

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