Erbius NL Product Line

Erbium doped Erbius-NL-15**-X CW fiber laser series

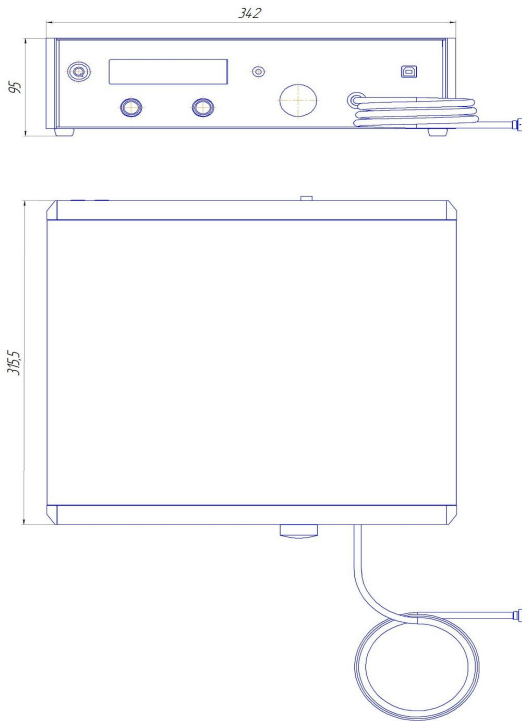
Key features

- Wavelength 1535 nm - 1580 nm
- Narrow linewidth
- TEM_{00} mode
- High output power (up to 30W)
- High power stability
- High beam quality (M^2<1.1)

Erbius-NL-10**-X is the high power low noise 1535 nm -1580 nm Er-doped fiber laser. NL series has the linewidth less than 0.3 nm. Erbius-NL-10**-X is designed for industrial turn-key integration as a benchtop module. A full set of control electronics and power supply are included to the delivery package. Erbius-NL-10**-X are controlled by the on-board digital display, switches, and adjustment controllers. Erbius-NL-10**-X can be equipped with a collimator fiber termination and the built-in visible aiming laser (by requirement).This is a perfect tool for research labs due to excellent performance, high reliability, and lower cost.

Applications

- Spectroscopy
- Second-harmonic generation
- Laser machinery
- Other



Erbius-NL-10**-X specifications

Parameter	Value	Unit
Operating mode	CW	
Central wavelength	1535,1545, 1550, 1555, 1560, 1565, 1570, 1580	nm
Linewidth (FWHM)	< 0.1 (up to 10 W), < 0.3 (10 - 30W)	nm
Nominal output power	1, 2, 5, 10, 15, 20, 30	W
Output power tunability	10-100 (optional)	%
Long term instability	< 1	%
Polarization	Random, Linear (optional)	
Beam quality (M^2)	< 1.1	
Control interface	Front panel with display, RS232/USB (optional)	
Operating voltage	110 - 130V, 220 - 240 V, 50 - 60 Hz, Single Phase	
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)	342x95x315,5 (up to 15 W) 449x139x359 (15 - 30W)	mm
Weight	< 10 (up to 15 W) , < 18 (15 - 30W)	kg

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

Ordering Information:

Product Code	Erbius-NL-15xx-X-yy-p-cc	xx:	Wavelength (nm)
		yy:	Output power (W)
		p:	Polarization: R - random, L - linear
		cc:	Optical output: FO - fiber output, 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.