datasheet

evolase Oy

LASERS

SINGLE-FREQUENCY **NARROWBAND ERBIUM LASER**

Description

Erbium single-frequency narrowband fiber laser with low noise level. Stability of laser parameters is achieved by active temperature stabilization in a wide range. The laser has small dimensions and can be built into a standard 19" rack or have an OEM design.

Due to the user-friendly front panel interface and flexible Ethernet (TCP/IP) interface, the laser can easily be used for research purposes in laboratories and measurement facilities.

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Specifications

Quantity of channels, pcs.	1
Wavelength, nm	1530–1580
Wavelength tuning, GHz	± 20
Bandwidth, kHz	< 1
Power	40 mW – 10 W
Power range, from maximum, %	from 1 to 100
Operating mode	Continuous
Frequency stability, MHz	Long-term (operating for 1 hour) – at least 250
	Short-term (operating for 1 s) – at least 20
Cooling	Air
Power consumption, W	no more than 350
Operating temperature range, °C	from +15 to +30
Polarization	Natural
Power supply voltage, V	110 – 265
Monitoring	Via front panel or remotely via TCP/IP protocol
Output power instability (at 25 °C), %	Long-term (operating for 1 hour) < 5
	Short-term < 0.5

Applications

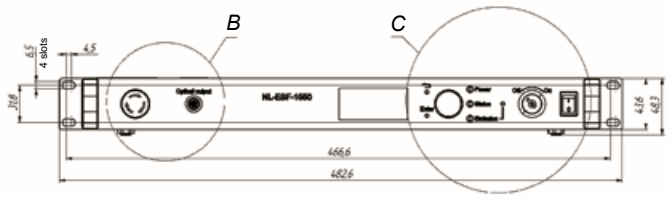
- Interferometric measurements
- Measurements of surface velocity in fast-moving, shock-wave processes
- Vibrometry
- Laser spectroscopy
- Optical communications

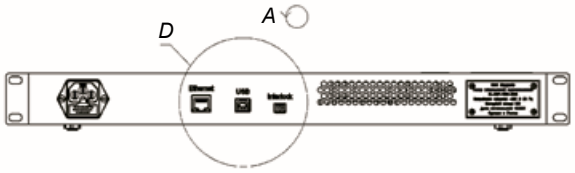
Ordering information

Part number: EVO-SF- aaaa - bbbb - ccc

Part-number	Wavelength, nm	Power, mW	Configuration
EVO-SF	aaaa	bbbbb	ccc
	1530	40	OEM
	1550	200	No marking – at 19'' rack body
	1580	2000	
	Other from the range	10000	

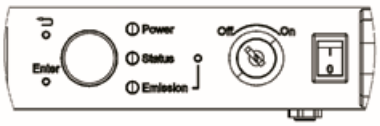
Mechanical drawings



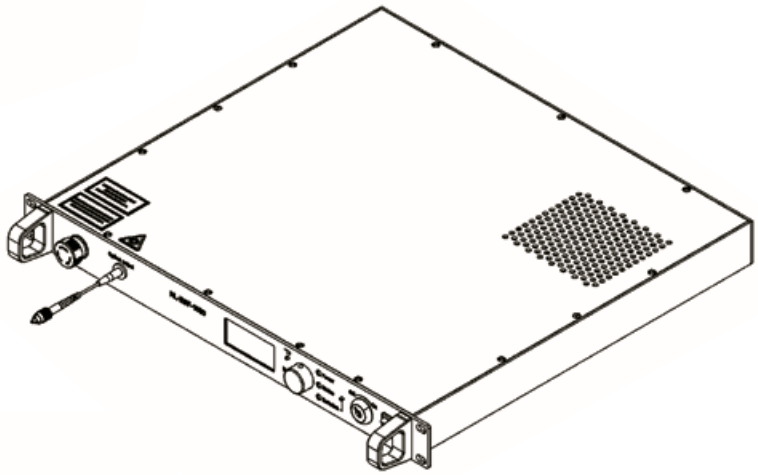


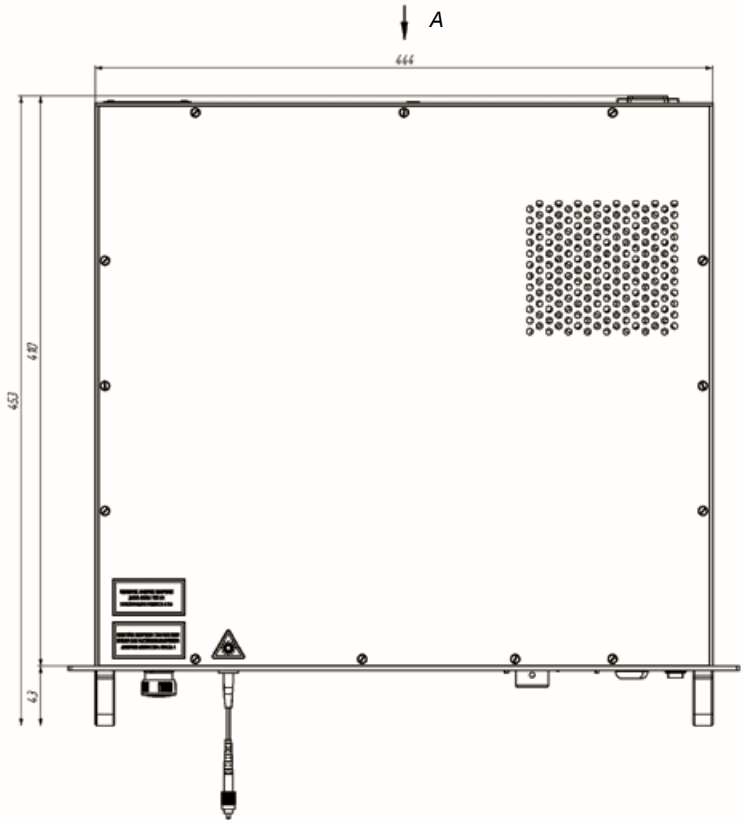
B (zoomed in)

C (zoomed in)



D (zoomed in)





Typical performance characteristics