

Optromix - SFE

CW Single-Mode 1.5 μm Fiber Laser

Central Wavelength Standard: 1550, 1556, 1560 nm
Custom: Any within the range 1530 – 1580 nm

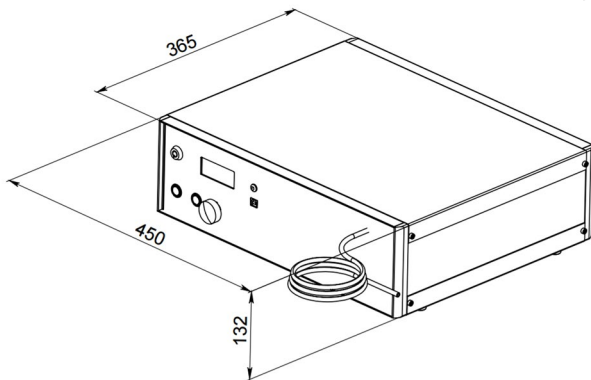
KEY FEATURES

- Ultra Narrow Linewidth
- High Power Stability
- High Beam Quality
- Thermal Wavelength Tuning
- Computer Control



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DIMENSIONS



Specifications

Optical

Parameter	Optromix-SFE
Operating mode	CW, Single Frequency, TEM ₀₀
Central Wavelength ¹	1550 nm, 1556 nm, 1560 nm
Linewidth (FWHM) ²	< 5 kHz (typical < 2.5 kHz)
Nominal Output Power	0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10 W
Power Stability ³	< 1% (typical <0.5%)
Beam quality (M ²)	< 1.05 (typical <1.02)
Piezo Tuning Range ⁴	+/- 15 pm
Thermal Tuning Range	+/- 0.15 nm
Polarization	Linear (PER > 23dB)
Optical Output ⁵	Armed Fiber with a Collimator or Isolator
RIN level (peak: app 0.9 MHz)	<-110dB/Hz@peak, <-140dB/Hz@10MHz
Output Power Tunability	10 – 100%

Notes

1. 15** nm by demand, Custom wavelengths 1530 – 1580 nm.
2. Custom Linewidth < 1 kHz
3. Over 1 Hour with base temperature constant within 0.2 °C after 30 minute warm-up

4. Option, External PZT Driver 0-120V, Modulation up to 10 kHz
5. Optional output: Bare Fiber, FC or FC/APC connector (< 5W output)

Electrical / Mechanical / Environmental

Parameter	Optromix-DSE
Power Supply Requirements	100–240V, 50–60Hz, Single Phase
Power Consumption (10W output)	< 500 W
Control Connector ¹	USB
Cooling	Forced Air
Dimensions (WxHxL)	≥ 2 W output: 450 mm x 132 mm x 365 mm < 2 W output: 342 mm x 95 mm x 365 mm
Weight	< 18 kg
Operation temperature	10 – 35 °C
Storage temperature	- 40 – +70 °C
Operation Humidity	10 – 85 %
MTBF	> 10,000 Hrs
Standard Patch Cord Length ²	1.2 m

Notes

1. Optional Connectors: RS232, Ethernet

2. Optional length: Up to 5 m

Warranty: Standard Warranty - 12 months from the date of delivery.

Product code:

Optromix-SFE-15xx-yyyyy-cc

xx Wavelength (nm)
 yyyy Output power (mW)
 cc Optical output: FA - FC/APC, FC - FC connector, CL - Collimator, IS - Isolator

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

