

Optromix - SFES / SFEM

CW Single-Frequency Fiber Laser Module

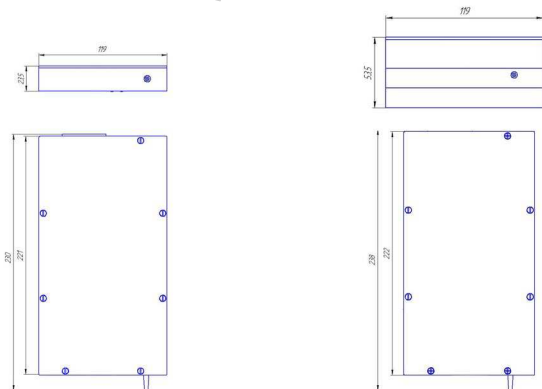
Wavelengths: Standard 1550 nm, 1556 nm, 1560 nm
Custom: 1530 – 1580 nm

KEY FEATURES

- Ultra-Narrow Linewidth
- Thermal Wavelength Tuning
- Fast Piezo Tuning
- Low RIN Level
- Computer Control



DIMENSIONS



Specifications

Optical

Parameter	SFES	SFEM
Operating mode	CW, Single Frequency, TEM ₀₀	
Central Wavelength ¹	1550 nm, 1556 nm, 1560 nm	
Linewidth (FWHM) ²	< 10 kHz	
Nominal Output Power	40 mW	500 mW, 1W, 2W
Power Stability ³	< 1% (typical < 0.5%)	
Piezo Tuning Range ⁴	0.4 nm	
Thermal Tuning Range ⁵	-0.14/+0.28 nm	
Polarization	Linear, (PER>20 dB)	
Optical Output ⁶	Patch Cord with an FC/APC connector	
RIN level (peak: app 1.4 MHz)	<-105 dB/Hz@peak <-140 dB/Hz@10MHz	

Notes

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|---|--|
| <p>1. 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</p> | <p>4. Option, External PZT Driver 0-120V, modulation up to 10 kHz
 5. Option.
 6. Optional output: Bare Fiber, FC connector, Collimator, by demand</p> |
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Electrical / Mechanical / Environmental

Parameter	Optromix-SFES	Optromix-SFEM
Power Supply Requirements ¹	+5 V	
Power Consumption (1W output)	< 75 W	
Control Connector ²	Ethernet	
Cooling	Ambient Air	External Forced Air
Dimensions (WxHxL)	119 mm x 23.5 mm x 238 mm	119 mm x 53.5 mm x 238 mm
Weight	< 1 kg	< 2 kg
Operation temperature	15 – 35 °C	
Storage temperature	-40 – +70 °C	
Operation Humidity	10 – 85 %	
MTBF	> 10,000 Hrs	
Standard Patch Cord Length	1.2 m	

Notes

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|--------------------------------------|---|
| <p>1. Optional Power Supply Unit</p> | <p>2. Optional Connectors: RS232, USB</p> |
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Warranty: Standard Warranty - 12 months from the date of delivery.

Product code:

Optromix-SFES/SFEM-15xx-yyyy-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.

