

Optromix - SFES

CW Single-Frequency Fiber Laser Module

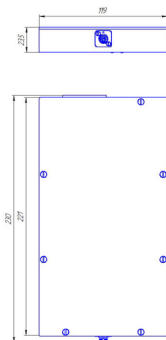
Wavelengths: Standard 1550 nm, 1556 nm, 1560 nm
Custom: 1530 – 1580 nm

KEY FEATURES

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



DIMENSIONS



100 mW Module Dimensions

Specifications

Optical

Parameter	Optromix-SFES
Operating mode	CW, Single Frequency, TEM ₀₀
Central Wavelength ¹	1550 nm, 1556 nm, 1560 nm
Linewidth (FWHM) ²	Grade 1: < 10 kHz, Grade 2: < 5 kHz, Grade 3: < 2 kHz
Nominal Output Power	20 mW, 50 mW, 100 mW
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 ⁵	+/- 0.15 nm
Polarization	Linear (> 100:1)
Optical Output ⁶	Patch Cord with an FC/APC connector
RIN level (peak: app 1.2 MHz)	< -120 dB/Hz@0.3MHz < -110 dB/Hz@peak, < -140 dB/Hz@10MHz

Notes

1. Custom wavelengths 1530 - 1580 nm.
2. Custom Linewidth < 1kHz
3. Over 1 Hour with base temperature constant within 0.2 OC after 30 minute warm-up

4. Option, External PZT Driver 0-120V, modulation up to 100 kHz
5. Option.
6. Optional output: Bare Fiber, FC connector

Electrical / Mechanical / Environmental

Parameter	Optromix-SFES
Power Supply Requirements ¹	+5 V
Power Consumption (1W output)	< 25 W
Control Connector ²	Ethernet
Cooling	Ambient Air
Dimensions (WxHxL)	119 mm x 23.5 mm x 238 mm (100 mW)
Weight	< 1 kg
Operation temperature	10 – 35 °C
Storage temperature	- 40 – +70 °C
Operation Humidity	10 – 85 %
MTBF	> 10,000 Hrs
Standard Patch Cord Length	0.5 m

Notes

1. Optional: Power Supply Unit

2. Optional Connectors: RS232

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

Product code:

Optromix-SFES-15xx-yyyy-cc

xx	Wavelength (nm)
yyyy	Output power (mW)
cc	Optical output: FA - FC/APC, FC - FC connector, FO - Bare Fiber Output

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



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