

Optromix - PMY / SMY

CW Single-Mode 1 μm Fiber Laser

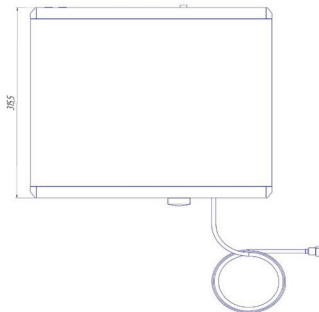
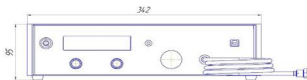
Central Wavelength: Any within the range 1030 nm – 1120 nm

KEY FEATURES

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



DIMENSIONS



Housing for 1 W, 2 W, 5 W, 10 W, 15 W, 20 W output power model.

Specifications

Optical

Parameter	Optromix-PMY	Optromix-SMY
Operating mode	CW, TEM ₀₀	
Central Wavelength ¹	Any within the range 1030 nm – 1120 nm	
Linewidth (FWHM) ²	< 0.3 nm (typical <0.1 nm)	
Nominal Output Power	1, 5, 10, 15, 20, 30, 50 W	
Power Stability ³	< 1% (typical <0.5%)	
Beam quality (M ²)	< 1.1 (typical <1.05)	
Output Power Tunability	10 – 100%	
Thermal Tuning Range ⁴	+/- 0.15 nm	
Polarization	Linear (PER > 20 dB)	Unpolarized
Optical Output ⁵	Armed Fiber with a Collimator or Isolator	

Notes

1. 10**.* nm by request
2. Custom Linewidth < 0.1 nm
3. Over 1 Hour with base temperature constant within 0.2 °C after 30 minute warm-up

4. Option.
5. Optional output: Bare Fiber, FC or FC/APC connector (< 10W output)

Electrical / Mechanical / Environmental

Parameter	Optromix-PMY/SMY
Power Supply Requirements	100–240V, 50–60Hz, Single Phase
Power Consumption (30W output)	< 500 W
Control Connector ¹	USB
Cooling	Forced Air
Dimensions (WxHxD)	> 20 W output: 450 mm x 132 mm x 365 mm ≤ 20 W output: 342 mm x 95 mm x 315.5 mm
Weight	< 15 kg
Operation temperature	10 – 35 °C
Storage temperature	- 40 – +70 °C
Operation Humidity	10 – 85 %
MTBF	> 10,000 Hrs
Standard Output Cable 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-pMY-1 xxx-yy-cc

p	Polarization: P - Linear, S - Unpolarized
xxx	Wavelength (nm)
yy	Output power (W)
cc	Optical output: FA - FC/APC, CL - Collimator, IS - Isolator

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



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