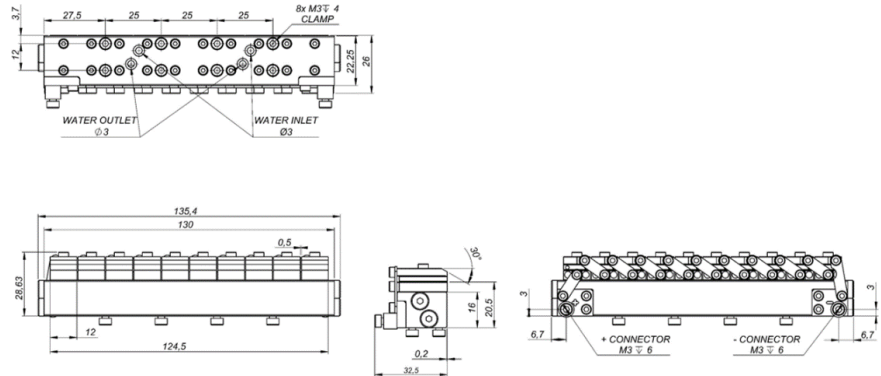
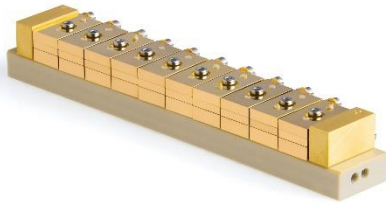


Actively Cooled Linear Laser Array

LB10 λ 640-2200 nm



Features:

Improved cooling efficiency
No “smile” effect
Number of laser bars: 10
Central wavelength on demand
Real macro-channels cooling

Suitable for:

Optical pumping
Illumination
Imaging

Technical specifications ⁽¹⁾	
Wavelength ⁽²⁾ [nm]	640 - 2200
Spectral width, FWHM [nm]	< 5
Stack peak power ⁽³⁾ [W]	CW 250 per laser bar / QCW 500 per laser bar
Operating current [A]	CW <180 / QCW <450
Voltage @ connectors ⁽⁴⁾ [V]	~ 2 per laser bar
Pitch between centers [mm]	10.5 - 12.5
Bar smile (PV) [μ m]	< 0.3
Coolant flow [l/min]	1.5 - 3.0
Coolant pressure [bar]	3.0 - 4.5
Coolant temperature ⁽⁵⁾ [°C]	Non-condensing -35
Coolant	90% deionized water + 10% ethylene glycol
Electrical connections	2 x M3 threads
Water connections	4 x Ø 3 mm fittings
Expected lifetime	> 20000 h
Laser class (EN-60825)	4

- Specifications at 20°C, in the beginning of lifetime
- Maximum ratings are NOT all achievable at a time
- Number of Laser bars = 10
- Voltage from the power supply must be higher, as due to high current there will be a voltage drop in the cables
- The coolant temperature must be adjusted to get the right central wavelength according to the data supplied with each unit

LB10 / 640-2200 nm
Version: 1.0.0.0 October 2021
Product specification are subject to change without notice.
For complete details, please contact your local MONOCROM sales representative.

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