

Encapsulated Actively Cooled Laser Stack

ENCAST-6

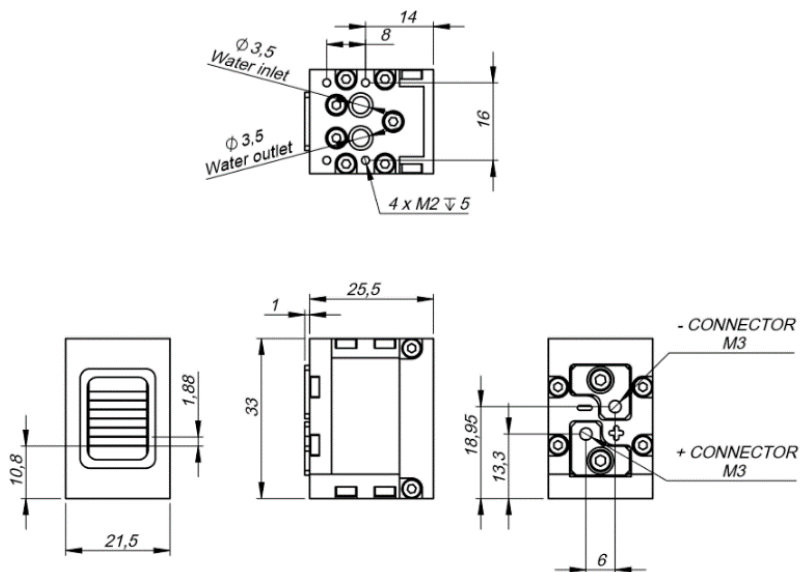
Features:

- Actively cooled pulsed direct beam
- Clamping™ Patented Technology (Solder free mounting of laser bars)
- Long lifetime
- High reliability
- Low thermal resistances
- Wide storage temperature - 40° C to + 85° C
- No “smile” effect

Suitable for:

- Medical
- Industry

Outline ENCAST- 6 laser bars



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Product specification are subject to change without notice.
For complete details, please contact your local MONOCROM sales representative.

UNE EN ISO 9001:2015

MONOCROM S.L.

C/Vilanoveta 6
08800 Vilanova i la Geltrú (Barcelona)
Spain
T. +34 938 149 450
F. +34 938 143 767
E. sales@monocrom.com
www.monocrom.com

Laser^(1,2)	
Type	actively cooled stack
Wavelength ⁽³⁾ [nm]	760 / 808 / 1064
Wavelength tolerance [nm]	± 20
Output power per laser bar [W]	200
Operating current ⁽⁴⁾ [A]	up to 200
Voltage @ connectors ⁽⁵⁾ [V]	~ 12
Numbers of laser bars	6
Pitch (bar 2 bar) [mm]	1.8
Module⁽⁶⁾	
Output power [W]	600 up to 1200
Coolant flow [l/min]	1.8
Duty cycle ⁽¹⁰⁾	50% - CW
Coolant pressure [bar]	3.0
Coolant	90% distilled water + 10% ethyleneglycol
Coolant conductivity [μ S/cm]	5
Electrical connections	threads M3
Water connections	water fittings for \varnothing 3.5 mm tube
Water temperature [$^{\circ}$ C] ⁽⁹⁾	~ 20
Weight ⁽⁷⁾ [g]	< 100
Laser class product (EN-60825)	4
Package dimensions (HxWxL) [mm]	33 x 25.5 x 21.5
Expected life-time ⁽⁸⁾	10 ⁸ pulses

1. Specifications at 20 °C, at the beginning of the lifetime.
2. If any other requirements are needed, please contact us.
3. Combination is also available.
4. Normal max current is 180 A.
5. Voltage from the power supply must be higher, as due to high current there will be a voltage drop in the cables.
6. Optics and cooling adaptation are available.
7. With no optics.
8. Reduced lifetime if use in conflict to the nominal operational conditions.
9. Water temperature can be between 19°C to 23°C
10. CW mode valid only for 100A current.

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