



Fiber-Coupled Module

LiOM S9

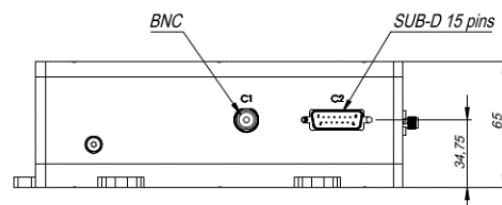
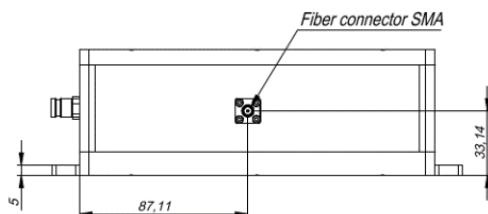
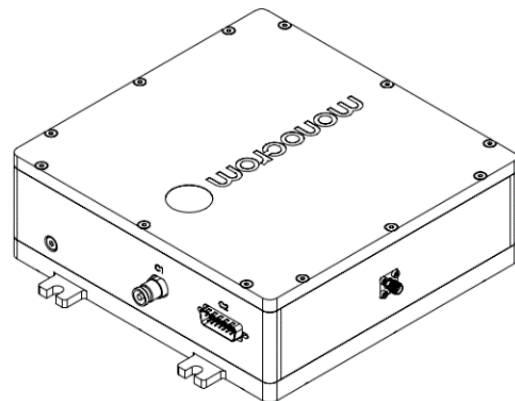
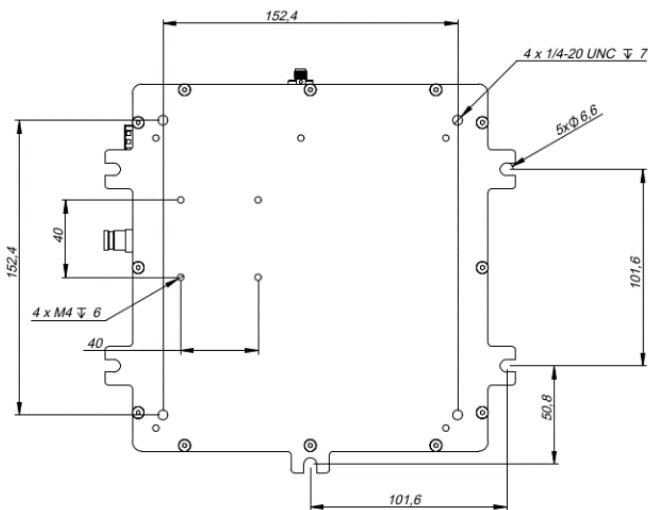
Features:

- Long lifetime
- High reliability
- Low thermal resistance
- Wide operational temperature up to 65 °C

Suitable for:

- Illumination
- Industrial
- LiDAR
- Range finding

Outline LiOM S9



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

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Laser parameters^(1,2,3)		LiOM S9
Type		fiber-coupled module
Wavelength ⁽⁴⁾ [nm]		905 ± 5
Spectral width (FWHM) [nm]		< 10
Peak power from 200 µm fiber, QCW [W]		> 185
Slope efficiency [W/A]		> 3
Repetition rate [kHz]		up to 200
Pulse length [ns]		6.5
Max duty cycle [%]		0.2
Electrical parameters		
Driver electronics		included
Operating current [A]		< 4.5
Voltage @ connectors ⁽⁵⁾ [V]		15
Electrical connection		SUB-D-15
Trigger connection		BNC
Trigger input		5 V TTL @ 50 Ohms
Trigger signal duration		> 100 ns (500 ns are recommended)
E-O conversion efficiency [%]		> 60
Optical fiber⁽⁶⁾		
Fiber core diameter [µm]		200
Numerical aperture		0.22
Fiber collimator		optional
Clear aperture [mm]		optional
Beam diameter ⁽⁷⁾ [mm]		optional
Residual divergence ⁽⁸⁾ [°] / [mrad]		optional
Fiber length [m]		optional
Fiber input connector		HP-SMA 905
Other parameters		
Operating temperature [°C]		non-condensing to 65
Storage temperature [°C]		between -10 and 75
Recommended heat sink capacity [W]		20
Recommended heat sink temperature [°C]		20 ±2
Lifetime [h]		> 20000
Laser class product (EN-60825)		4

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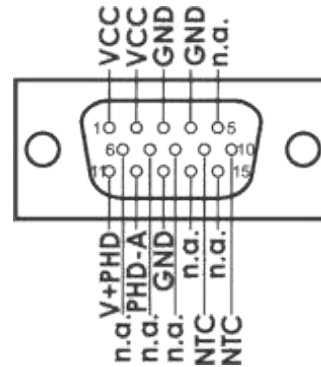
UNE EN ISO 9001:2015

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Pin layout for electrical connections between laser head and electronics

SUB-D-15	
Pin number	Description
1	VCC
2	VCC
3	GND
4	GND
5	n.c.
6	n.c.
7	n.c.
8	n.c.
9	NTC
10	NTC
11	MPD +
12	MPD -
13	GND
14	n.c.
15	n.c.



1. Specifications at 20 °C, at the beginning of the lifetime.
2. If any other requirements are needed, please contact us.
3. QCW: with integrated driver electronics: Duty cycle below 0.1%. CW.
4. Other wavelengths are also available.
5. Voltage from the power supply must be higher, as due to high current there will be a voltage drop in the cables.
6. Other specifications on request. Fiber core, fiber length and fiber connector can be adapted to customers' demands.
7. Beam diameter is determined via $1/e^2$ value.
8. Divergence is determined via FWHM value.

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