



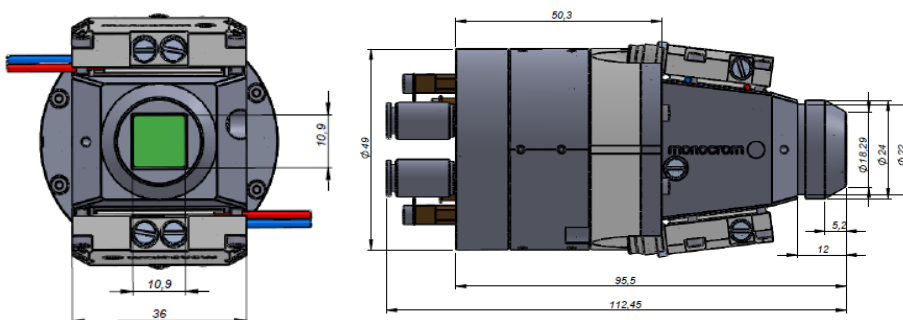
# High Power Laser Diode Module

## HPL-D49-TP

### Features:

- Encapsulated high power laser diode with a TIP
- Wavelength: standard/custom
- CLAMPING® Tech inside
- Extended useful life-time
- Improved reliability
- Low thermal resistance
- Storage temperature: from -40°C to + 85°C
- No “SMILE” effect

## HPL-D49-TP



### HPL-D49-TP

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

UNE EN ISO 9001:2015

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## HPL-D49-TP | TECH Specifications

<b>Laser Parameters</b>		
Type	Conductively cooled stack	
Wavelength [nm]	760	1060
Wavelength tolerance [nm]	±20	±20
Output power per bar [W]	200	250
Operating current, $I_{op}$ [A]	180	225
Threshold current, $I_{op}$ [A]	<20	<25
Voltage @ connectors <sup>(1)</sup> , V [V <sub>dc</sub> ]	<24	
<b>Module</b>		
Output power [W]	2400	3000
Coolant flow [l/min]	1 – 2	
Coolant pressure [bar]	2.5 – 3.5	
Coolant <sup>(2)</sup>	90% Distilled water + 10% ethyleneglycol	
Electrical connections	Threads M3	
Water connections	Water fittings for Ø3mm tube	
Weight [g] <sup>(3)</sup>	<650	
Laser class product (EN-60825)	4	
Package dimensions (ØxL) [mm] <sup>(4)</sup>	49 x 112.5	
Expected lifetime <sup>(5)</sup>	10 <sup>8</sup> pulses	
<b>Additional Parameters</b>		
Output window	1 cm <sup>2</sup>	
External window material	Sapphire	

1. Voltage from the power supply must be higher, as due to high current there will be a voltage drop in the cables.
2. Coolant temperature measured at 20°C.
3. Including the enclosure.
4. Maximum peak power.
5. Reduced life time if use in conflict to the nominal operational conditions

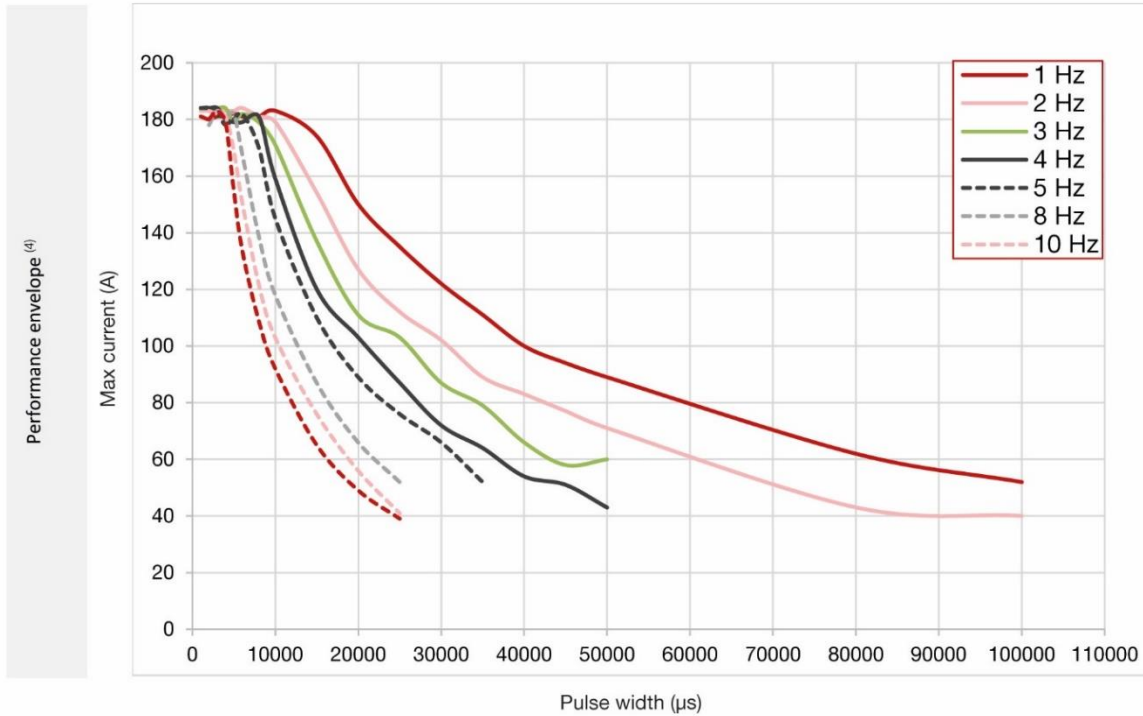
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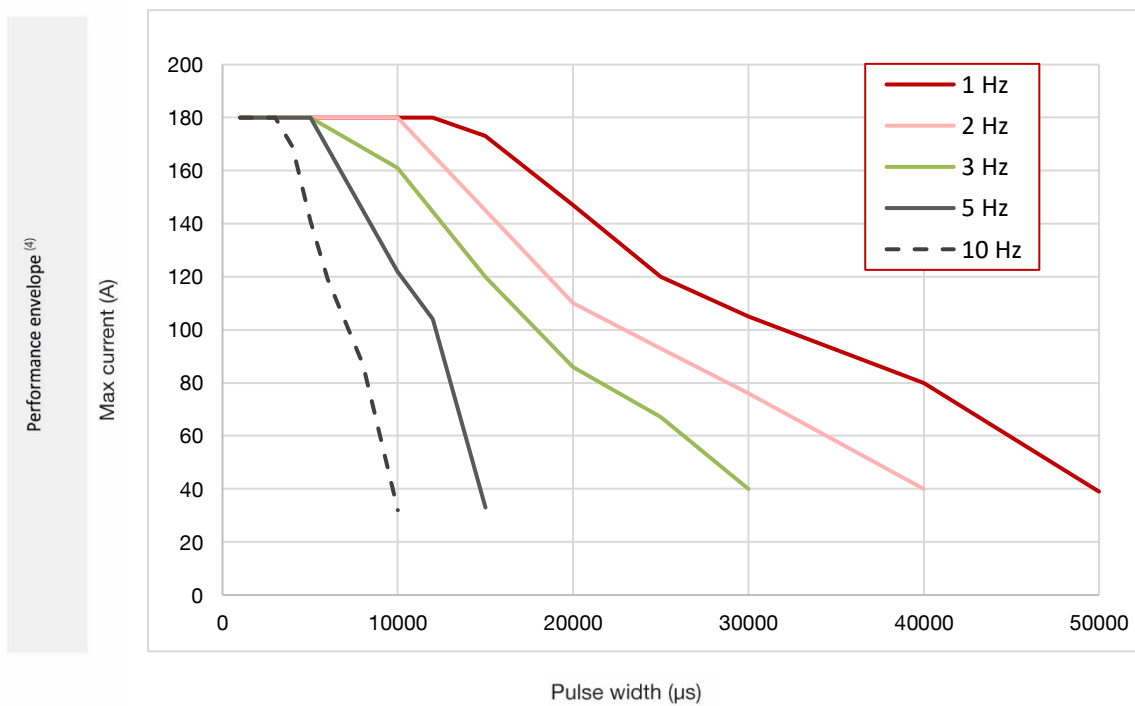
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1060 nm



760 nm

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