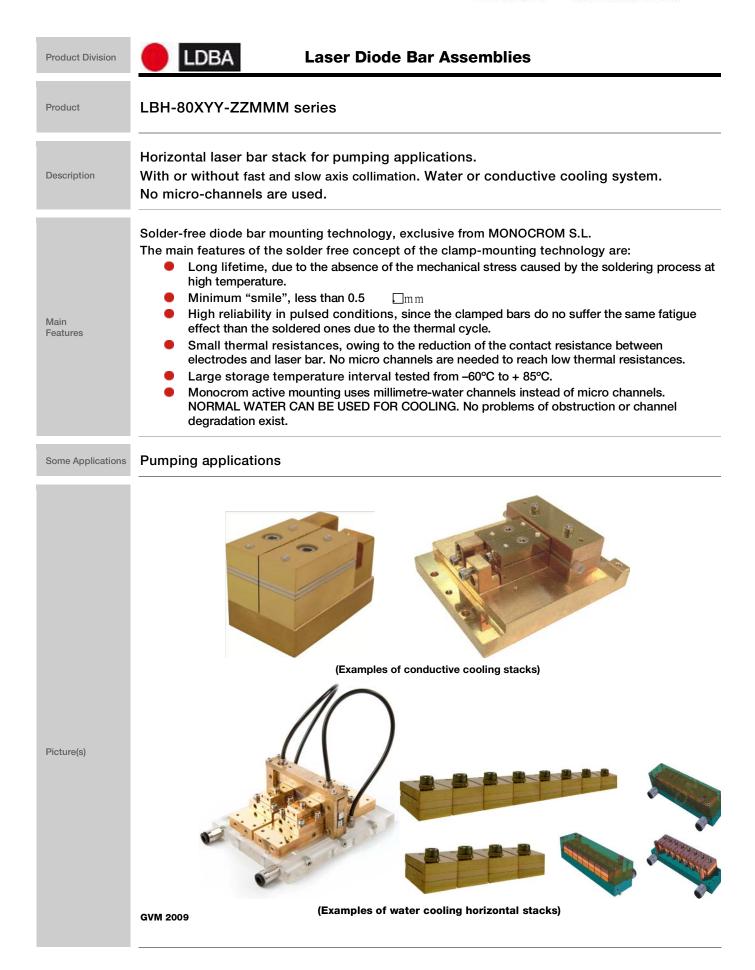
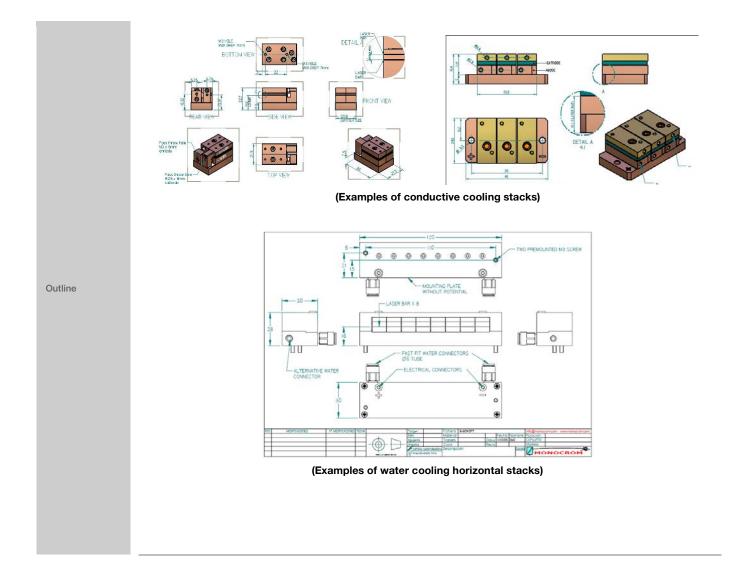


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		LBH-80XYY-ZZMMM GENERAL TECH SPECIFICATIONS						
Product number (according to type of diode)		LBH-80XYY-ZZMMM Horizontal stacked bars, 808 nm, X = A Active cooling, P Passive Cooling; YY: N° of bar, ZZ N° Of Emitters; MMM: CW or QCW						
	LBH-80PXX- 19MMM	LBH-80AXX- 19MMM	LBH-80PXX- 49MMM	LBH-80AXX- 49MMM	LBH-80PXX- 60MMM	LBH-80AXX- 60MMM		
Number of emitters in the laser bar ⁽¹⁾		19		49		60		
Laser Bar geometry ⁽¹⁾	1 cm wide emitter size: emitter spaci	30% fill factor 150 μm ng: 500 μm	1 cm wide emitter size: emitter spacing:	50% fill factor 100 μm 200 μm	1 cm wide emitter size: emitter spacing:	90% fill factor 150 μm 160 μm		
Output power, Max.	/ 40x№bars W	50xNºbars W	40xNºbars W	50xNºbars W	-	-		
	W 55xN°bars W	55x№bars W	70xNºbars W	70xNºbars W	150xNºbars W	150xNºbars W		
Operation current, C		50 – 55 A	45 – 50 A	55 – 60 A				
typ. for Pmax, lop Q	W 55 – 60 A	55 – 60 A	75 – 80 A	75 – 80 A	150 – 160 A	150 – 160 A		
Threshold current, typical	7 A	7 A	10 A	10 A	20 A	20 A		
Wavelength FWHM @ lop, typical	3 nm	3 nm	3,5 nm	3,5 nm	3,5 nm	3,5 nm		
Pulse Length QCW (2)	Up to seconds	Without limits	Up to hundreds of ms	Without limits	Up to tens of ms	Up to tens of ms		
Duty cycle, DC (2)	50%	50%	20%	50%	10%	20%		
Center wavelength at 25°C	(3)	808 ± 3nm						
Wavelength Temp. Coefficient		0,27-0,3 nm/⁰C						
Thermal resistance ⁽⁴⁾	0,	0,3-0,6 °C/W – water cooled 0,6-1 °CW-Conductive cooled						
Smile	< +/- 0,3 μm							
Voltage @ lop			1,7-2,1 V (Base to + voltage)					
Δ٧/Ι	2 mV/A							
Beam divergence FWHM (1		Typical High divergence without collimation optics (~30° - fast axis; 10°slow axis)						
Beam divergence after FA		Fast axis $\approx 3-6$ mrad, slow axis $\approx 10^{\circ}$						
Water connection		Lateral (with fast connectors) or below						
Cooling		Conductive or Tap Water (distilled water with 5% ethylenglycol is recomm.)						
Water pressure (for water cooling)		2 – 3 bars						
Water flow (for water cooling)		>0,3 l/min						
LD Operation temperature	6)	<25°C. If wet atmosphere, T>15°C is recommended						
Expected lifetime		10.000 hours CW 10 ⁹ shots QCW tp<1ms 10 ⁸ shots QCW tp>1ms						
Electrical connections		On the top:Threads M2,5mmBehind:Fast connectors (Pin ∅ 2x10mm), or threads M2mm						
Laser class product (EN- 60825)		4						

These values could change depending on the type of laser bars chosen by customer.
Higher values could be also available on request

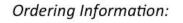
(3) Wavelengths from 780 to 1060 nm also available on request.



- (4) The module should be cooled properly to achieve these values. Low thermal resistance is possible without microchannels by cooling both anode and cathone with millimeter-channels. The different values depend on the type of mounting
- (5) Operation temperature could be increased for lower DC

Device sensitive to ESD & dust contamination => Handling under clean area conditions advised.

Parametrical and dimensional specifications can be modified upon request.





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