Micro-Channel Water Cooled Vertical Stack Diode Laser

VS120 Series

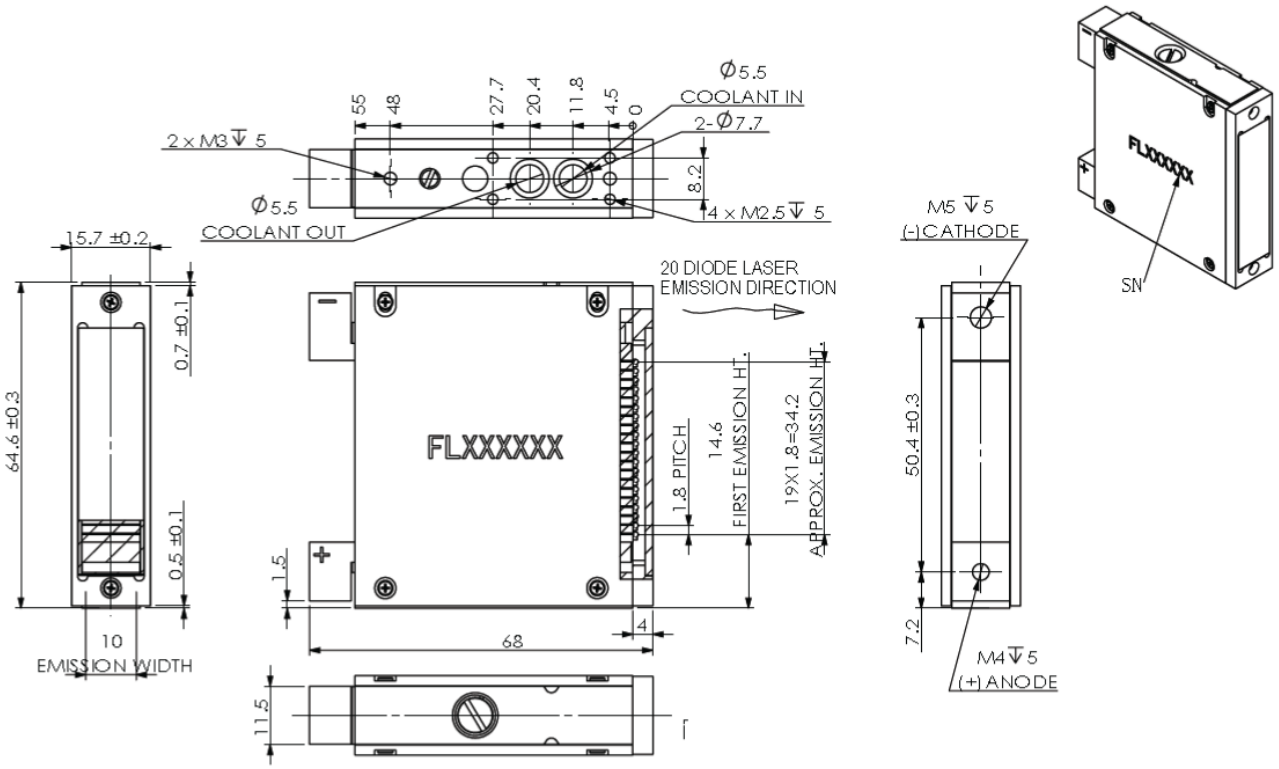
Features

- Long lifetime
- Low smile
- High power
- Narrow spectrum

Applications

- Pumping
- Medical
- Scientific research

Product Dimensions (mm)



Remark: The structure drawing is for reference only(20Bars). Please feel free to contact us for any special requirements.

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Product Specifications

Product Code				(Typical Customizations)	
Part No. [1]		FL-VS120-6X1-600-808-Y	FL-VS120-10X1-1200-940-Y	FL-VS120-15X1-7500-808-Y	FL-VS120-15X1-7500-940-Y
General Data	**Unit**	**Value**			
Operation Mode	-	CW	CW	QCW	QCW
Optical Data [2]					
Centroid Wavelength	nm	808	940	808	940
Wavelength Tolerance	nm	± 3	± 5	± 3	± 5
Output Power per Bar	W	100	120	500	500
Number of Bars[3]	-	6	10	15	15
Spectral Width FWHM	nm	≤ 3	≤ 3	≤ 4	≤ 5
Spectral Width 90% Energy	nm	≤ 6	≤ 6	≤ 6	≤ 8
Pulse Width	μs	NA	NA	200	600
Duty Cycle	%	NA	NA	≤8	≤8
Fast Axis Divergence (FWHM)	°	< 0.5	< 0.5	< 0.5	< 0.5
Slow Axis Divergence (FWHM)	°	8 (typical)	10 (typical)	8 (typical)	10 (typical)
Polarization Mode	-	TE	TE	TE	TE
Wavelength Temp. Coefficient	nm / °C	~ 0.28	~ 0.34	~ 0.28	~ 0.34
Electrical Data					
Operation Current	A	≤ 100	≤ 120	≤ 450	≤ 450
Threshold Current	A	≤ 30	≤ 35	≤ 30	≤ 35
Operating Voltage per Bar	V	≤ 2	≤ 2	≤ 2.2	≤ 2
Slope Efficiency per Bar	W / A	≥ 1.1	≥1. 1	≥ 1.1	≥1. 1
Power Conversion Efficiency	%	≥ 50	≥ 55	≥ 50	≥ 55
Thermal Data					
Operating Temperature [4]	°C	20~30	20~30	20~30	20~30
Storage Temperature [5]	°C	0~55	0~55	0~55	0~55

[1] Part No. = Brand Code - Series - Power - Centroid Wavelength(- Collimation).
[2] Data at 25°C temperature, unless otherwise stated.
[3] The multiple bars as optional (2-20Bars).
[4] Reduced lifetime if used above nominal operating conditions.
[5] A non-condensing environment is required for storage and operation below ambient dew level.

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