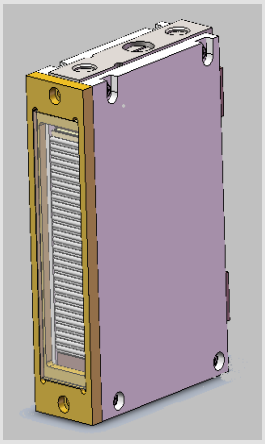
FocusEngine™

Micro-Channel Water Cooled Vertical Stack Diode Laser(CW)

VS120



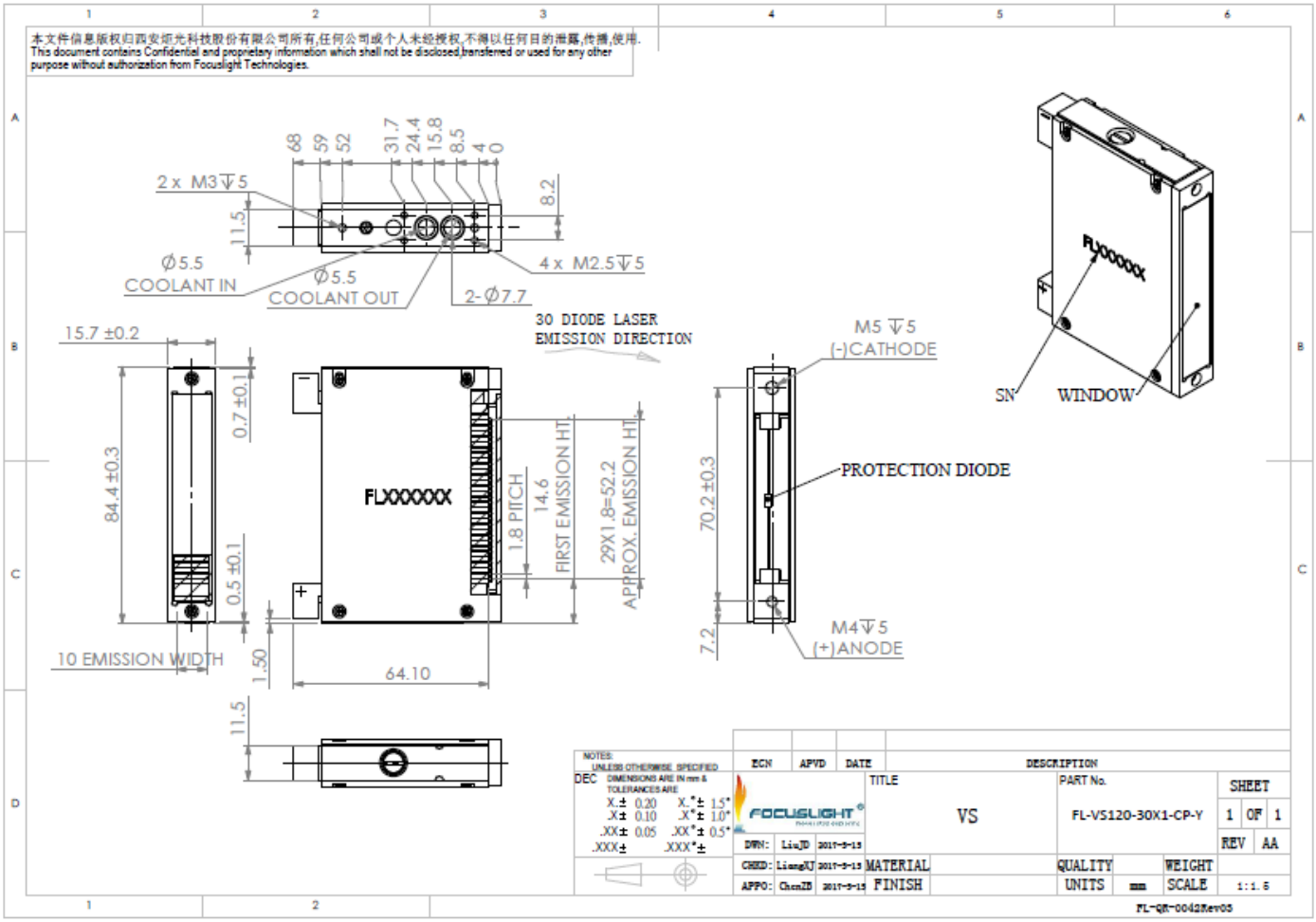
Features

- Long lifetime
- Narrow spectrum
- High power

Applications

- Pumping
- Research
- Industry

Device Dimension (mm)



This structure drawing is only for reference. For any other special requirement, please feel free to contact us.

Specification

Module Type [1]	Units	FL-VS120-NX1-100XN-808	FL-VS120-NX1-120XN-976
Optical [2]			
Center Wavelength λ	nm	808	976
Wavelength Tolerance	nm	±3	±5
Output Power per Bar	W	100	120
Available Number of bars	-	1-65	1-65
Bar-to-Bar Spacing	mm	1.8	1.8
Spectral Width FWHM	nm	≤4	≤5
Spectral Width FW90%E	nm	≤6	≤8
Fast Axis Divergence(FWHM)[3]	degree	35	35
Slow Axis Divergence(FWHM)	degree	8	8
Pulse Width	μs	/	/
Duty Cycle	%	/	/
Polarization Mode	-	TE/TM	TE
Wavelength Temp. Coefficient	nm/℃	~0.28	~0.28
Electrical Parameters			
Operating Current I_{op}	A	≤120	≤110
Threshold Current I_{th}	A	≤25	≤20
Operating Voltage V_{op} [4]	V	≤2	≤2
Slope Efficiency[4]	W/A	≥1.1	≥1.1
Power Conversion Efficiency	%	≥48	≥55
Thermal Parameters			
Operating Temperature[5]	℃	20~30	20~30
Storage Temperature[6]	℃	0~55	0~55
Coolant	-	Deionized Water	Deionized Water
Flow Rate[4]	L/min	0.3~0.4	0.3~0.4
Max Inlet Pressure	kPa	380	380
Conductivity	μS/cm	＜5	＜5

[1] FL(abbreviation of Focuslight) - VS**(structure code) –NX1(Number of Bars) -##(Power) -808/976(center wavelength).

[2] Data at 25°C temperature, unless otherwise stated.

[3] For fast axis collimation: divergence ≤0.5°.

[4] Parameters for single Bar.

[5] If exceed operating temperature, the device lifetime will be impacted, which will cause wavelength drift.

[6] Please avoid use and storage in the condensation environment

Please feel free to contact with Focuslight if you have any requirement.

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