FocusMed®

Vshiny™ Micro-Channel Water Cooled Vertical Stack Diode Laser

HVS77

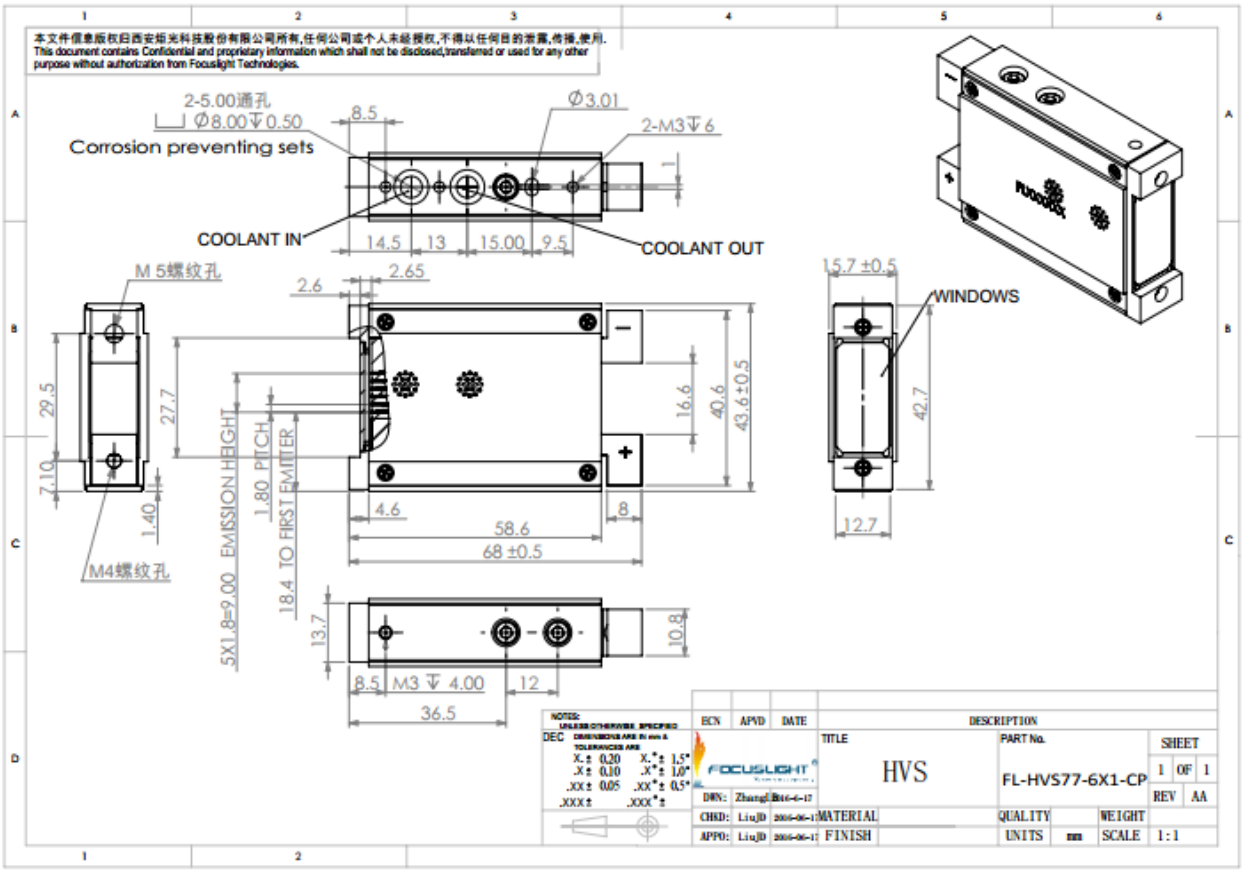
Features

- AuSn solder
- Uniform beam profile
- High power
- Long lifetime

Applications

- Hair Removal

Device Dimension (mm)



1 This structure drawing is only for reference. More structure drawings can be found below the datasheet. For any other special requirement, please feel free to contact us.

2 Drawings for 1-6 bars are available. Please contact Focuslight for details.

Specification

Module Type [1]	Units	FL-HVS77-6X1(5X1)-500-808
Optical [3,6]		
Center Wavelength λ	nm	808
Wavelength Tolerance	nm	±15
Output Power per Bar[2]	W	100
Max. Pulse Width	ms	400
Max. Duty Cycle	%	50
Number of bars	#	5
Bar-to-Bar Spacing	mm	1.8
Spectral Width FWHM	nm	4
Spectral Width FW90%E	nm	8
Fast Axis Divergence(**95%**)	degree	70
Slow Axis Divergence (**95%**)	degree	12
Polarization Mode	-	TE
Wavelength Temp. Coefficient	nm/℃	~0.28
Electrical Parameters [3,5]		
Operating Current I_{op}	A	⩽110
Threshold Current I_{th}	A	≤25
Operating Voltage V_{op} /bar	V	≤2
Slope Efficiency	W/A	⩾1.1
Power Conversion Efficiency	%	⩾50
Thermal Parameters		
Operating Temperature[6]	℃	25±5
Storage Temperature[4]	℃	0~55
Coolant	-	Deionized water
Flow Rate per bar	L/min	0.2~0.4
Max Inlet Pressure	kPa	380
Conductivity	μs*cm^{-1}	＜5

[1]Explanation for the name of Module Type: FL (abbreviation of Focuslight) –HVSxx (structure code) –N (number of bars) –X (output power) -# (center wavelength)

[2]Reduced lifetime if used above nominal operating conditions.

[3]Data at 25℃,unless otherwise stated.

[4]A non-condensing environment is required for storage and operation below ambient dew point

[5]It is recommended to use cooling water machine for laser cooling , Refrigerating capacity⩾1.5*PPK *（DC）max

[6]If there are any other requirements, please contact us

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