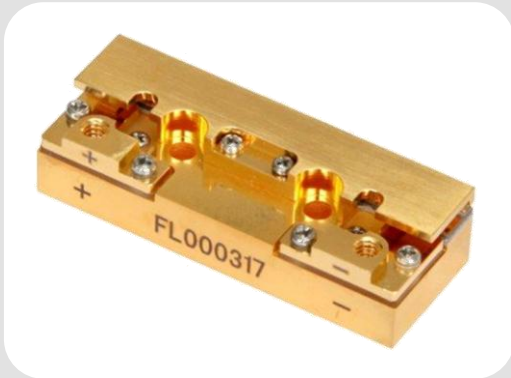


# Tap Water Cooled Horizontal Array Diode Laser (CW)



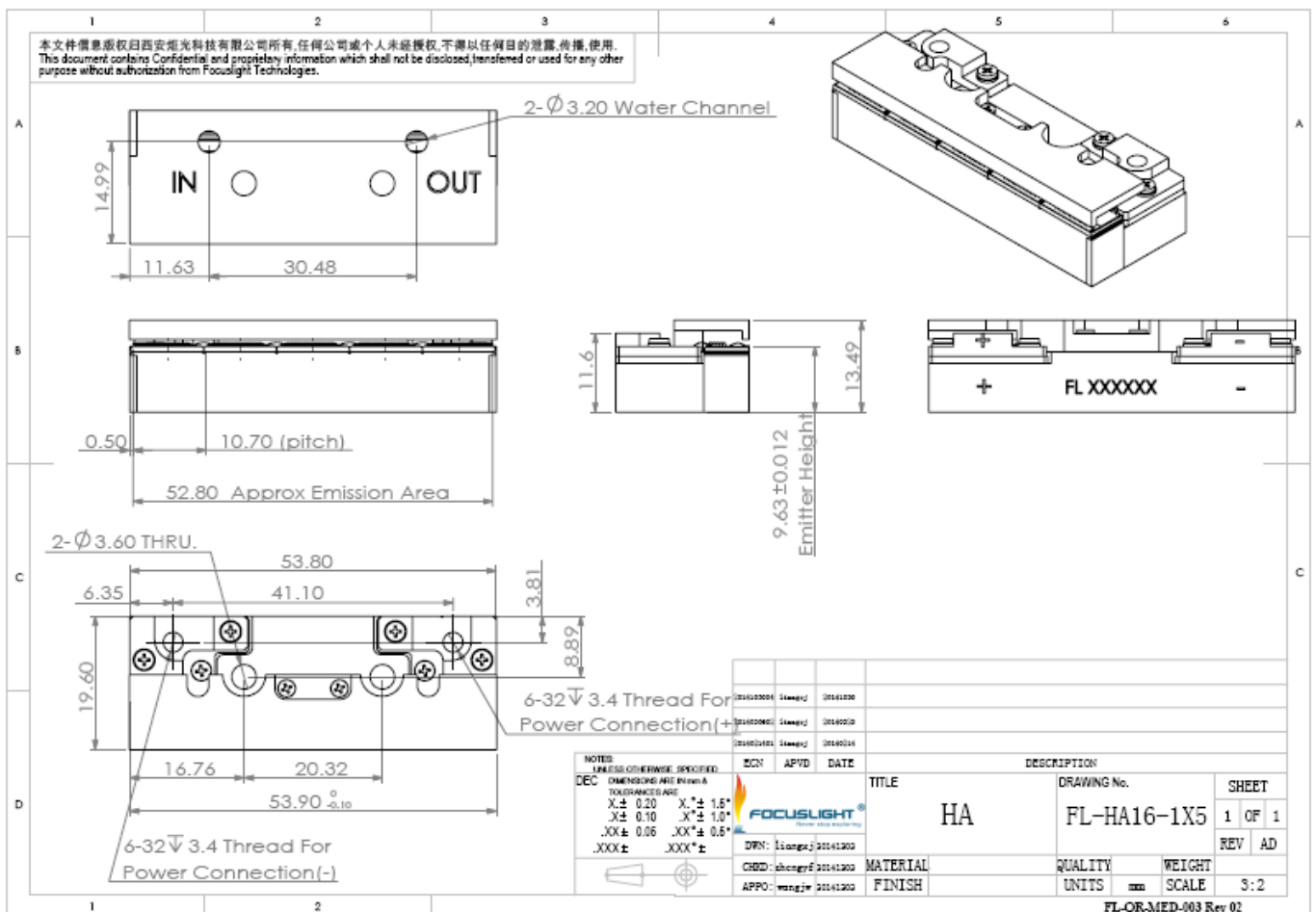
### Features

- Indium free packaging
- Tap water cooled
- Narrow spectrum
- Compact design

### Applications

- Pumping
- Industry
- Scientific research

## Device Dimension (mm)



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

2 The above drawings is for 4 bars only. Please contact Focuslight for details.

# Tap Water Cooled Horizontal Array Diode Laser(CW)

## Specification

Module Type <sup>1</sup>	Units	FL-HA**-N- ##-807
<b>Optical</b> <sup>3,5</sup>		
Center Wavelength $\lambda$	nm	807
Wavelength Tolerance	nm	$\pm 2$
Output Power per Bar <sup>2</sup>	W	40
Number of bars	#	5
Spectral Width FWHM	nm	$\leq 4$
Fast Axis Divergence(FWHM)	degree	$\sim 35$
Slow Axis Divergence (FWHM)	degree	$\sim 8$
Polarization Mode	-	TE
Wavelength Temp. Coefficient	nm/°C	$\sim 0.28$
<b>Electrical Parameters</b> <sup>3,5</sup>		
Operating Current $I_{op}$	A	$\leq 45$
Threshold Current $I_{th}$	A	$\leq 12$
Operating Voltage $V_{op}$ /Bar	V	$\leq 2$
Slope Efficiency	W/A	$\geq 1$
Power Conversion Efficiency	%	$\geq 48$
<b>Thermal Parameters</b>		
Operating Temperature	°C	15~30
Storage Temperature <sup>4</sup>	°C	-40~60
Coolant	-	Distilled or Clean Tap Water
Flow Rate	L/min	>1.5
Max Water Pressure Drop	Psi	<30
Internal Water Pressure	Psi	<60
Water Filter Size	$\mu m$	$\leq 100$

<sup>1</sup>Explanation for the name of Module Type: FL(abbreviation of Focuslight) -HA\*\*(structure code) -N(Number of Bars) -##(Power) -807(center wavelength).

<sup>2</sup>Reduced lifetime if used above nominal operating conditions.

<sup>3</sup>Data at 25°C temperature, unless otherwise stated.

<sup>4</sup>A non-condensing environment is required for storage and operation below ambient dew point

<sup>5</sup>If there are any other requirements, please contact us.



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