

# Macro-channel Water Cooled Horizontal Array Diode Laser (CW)

## HA16



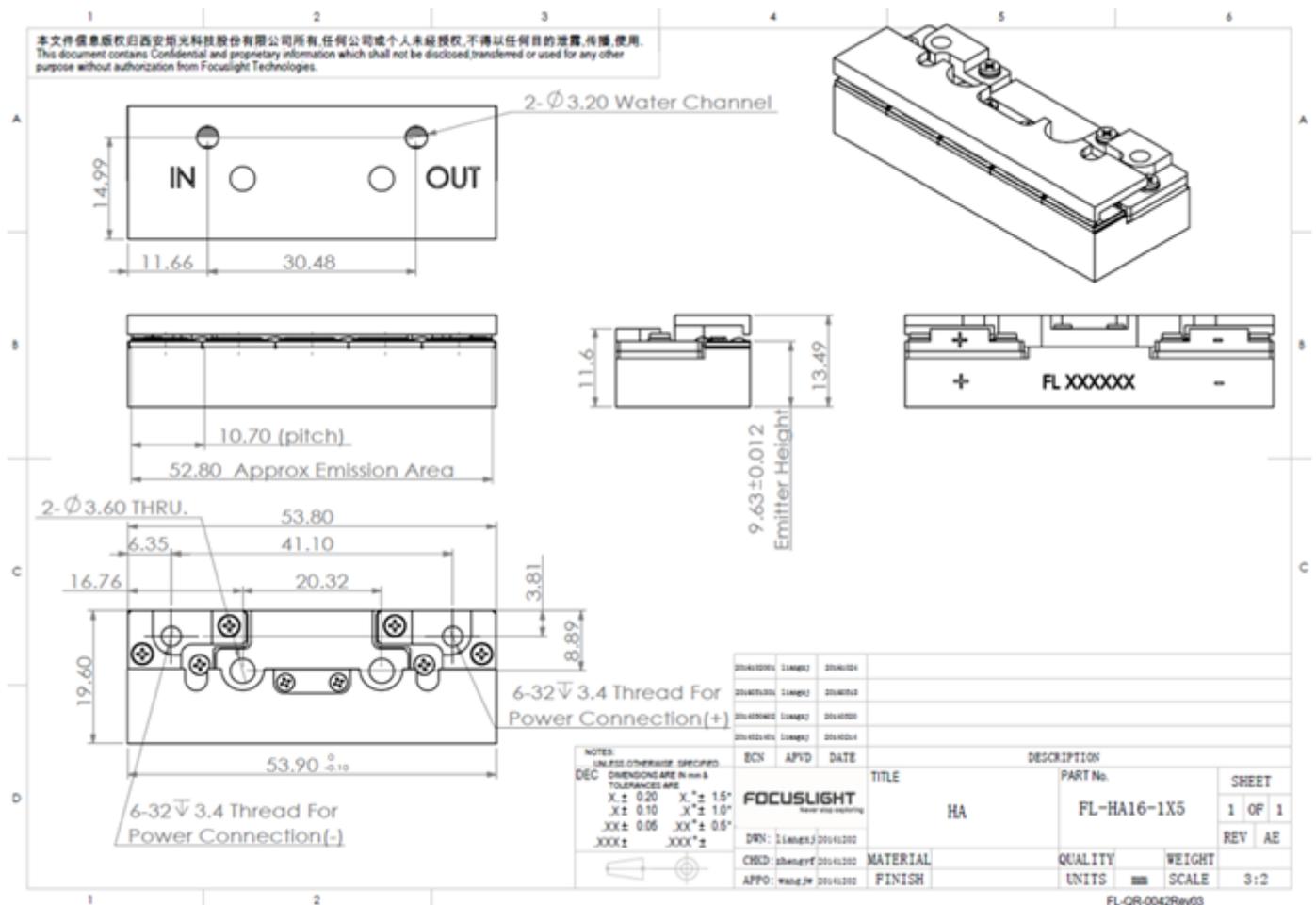
### Features

- AuSn bonding

### Applications

- Pumping
- Industry
- Scientific research

### Product Dimensions (mm)



**Remark:** The structure drawing is for reference only. Please feel free to contact us for any special requirements.

## Product Specifications

**Product Code**

**OPD000050**

Part No. <sup>1</sup>

FL-HA16-1x5-200-807

Optical Data <sup>2</sup>	Unit	Value
Centroid Wavelength	nm	807
Wavelength Tolerance	nm	± 3
Output Power <sup>3</sup> per bar	W	40
Numbers of Bars	#	5
Spectral Width 90% Energy	nm	≤ 6
Polarization Mode	-	TM
Wavelength Temp. Coefficient	nm / °C	~ 0.28

**Electrical Data <sup>2</sup>**

Operation Current	A	≤ 45
Threshold Current	A	≤ 12
Operating Voltage	V	≤ 2
Slope Efficiency	W / A	≥ 1
Power Conversion Efficiency	%	≥ 48

**Thermal Data**

Operating Temperature	°C	15 ~ 35
Storage Temperature <sup>4</sup>	°C	-40 ~ 60
Recommended Heatsink Capacity	W	≥ 120
Coolant	-	DI / Tap Water
Flow Rate	L/min	>1.5
Max Water Pressure Drop	Psi	< 30
Conductivity	µs/cm	< 5

<sup>1</sup> Part No. = Brand Code - Series - Power - Centroid Wavelength (- Collimation).

<sup>2</sup> Data at 25°C temperature, unless otherwise stated.

<sup>3</sup> Lifetime reduced if overused under nominal operating condition.

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

