

# 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.

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## **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	А	≤ 45
Threshold Current	А	≤ 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.



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