

# **High Power Fiber Coupled Diode Laser** FCSE08 Series



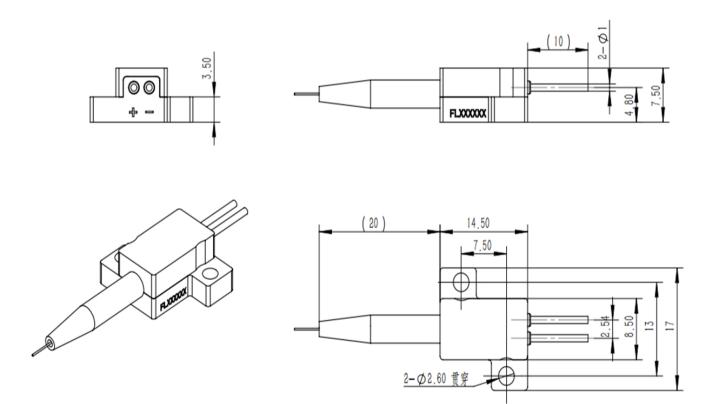
#### **Features**

- High brightness
- High power
- Compact housing
- Hermetically sealed housing
- Conduction Cooling

#### **Applications**

- Advanced Manufacturing
- Health
- Information Technology
- Scientific Research

### Product Dimensions (mm)



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

All rights reserved. Product specifications and descriptions are subject to change. Product delivered with limited warranty. Please contact our sales representatives for complete details. Address: 56 Zhangba 6th Road, High-Tech Zone, 710077 Xi'an, Shaanxi, P. R. China Focuslight Technologies Inc. Tel: +86 29 8188 9945 | Email: sales@focuslight.com | Website: https://www.focuslight.com



## **Product Specifications**

Product Code		FCE000026	FCE000028
Part No. <sup>1</sup>		FL-FCSE08-7-808-200	FL-FCSE08-8-915-105
Optical Data	Unit	Value	
CW-nominal output power	W	7	8
Centroid wavelength	nm	808	915
Wavelength tolerance (±)	nm	3	5
Spectral width (FWHM)	nm	≤3	≤4
Wavelength Temp. drift	nm/°C	$\sim$ 0.28	~0.32
Feedback Protection(1040nm-1100nm)	dB	1	30
Fiber connection			
Fiber included		Yes	Yes
Fiber core diameter	μm	200	105
Numerical aperture		0.22	0.15
Fiber optic connector <sup>2</sup>		SMA905(SF 8°)	SMA905(SF 8°)
Fiber length	m	1.5±0.1	1.5±0.1
Operation Conditions			
Nominal diode heat sink Temp.	°C	25	25
Diode heat sink operation Temp. <sup>3</sup>	°C	+20 +30	+20 +30
Minimum heat sink capacity	W	20	25
Electrical Data			
Operation current	А	≤9.2	≤10
Typical threshold current	А	≤1.8	≤0.9
Typical operation voltage	V	≤2.2	≤2
Typical slope	W/A	≥0.9	≥0.65
Typical E/O efficiency	%	≥40	≥40
Package			
Dimensions	mm³	44.5×17×7.5	44.5×17×7.5
Weight basic package	g	15	15
Storage Temp.	°C	-20 +80	-20 +80
Measurement			
Fiber		AR coated, 200µm	AR coated, 105µm
Diode heat sink Temp.	°C	25	25

<sup>1</sup> Part No. = Brand Code - Series - Power - Centroid Wavelength - Fiber core diameter.

<sup>2</sup> SF 8°: Flat end 8°.

<sup>3</sup>Operation beyond recommended temperature may cause lifetime reduction or even damage to the product.



#### Rev 04 | Updated February 13, 2025