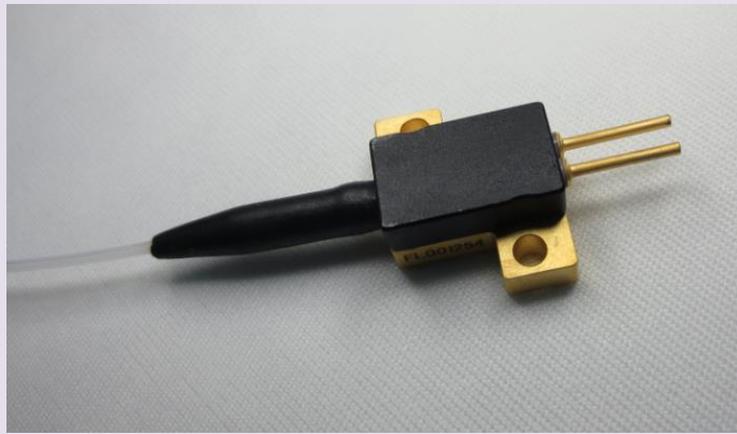


FocusFiber®

Fiber Coupled Single Emitter Diode Laser (CW)

FCSE08



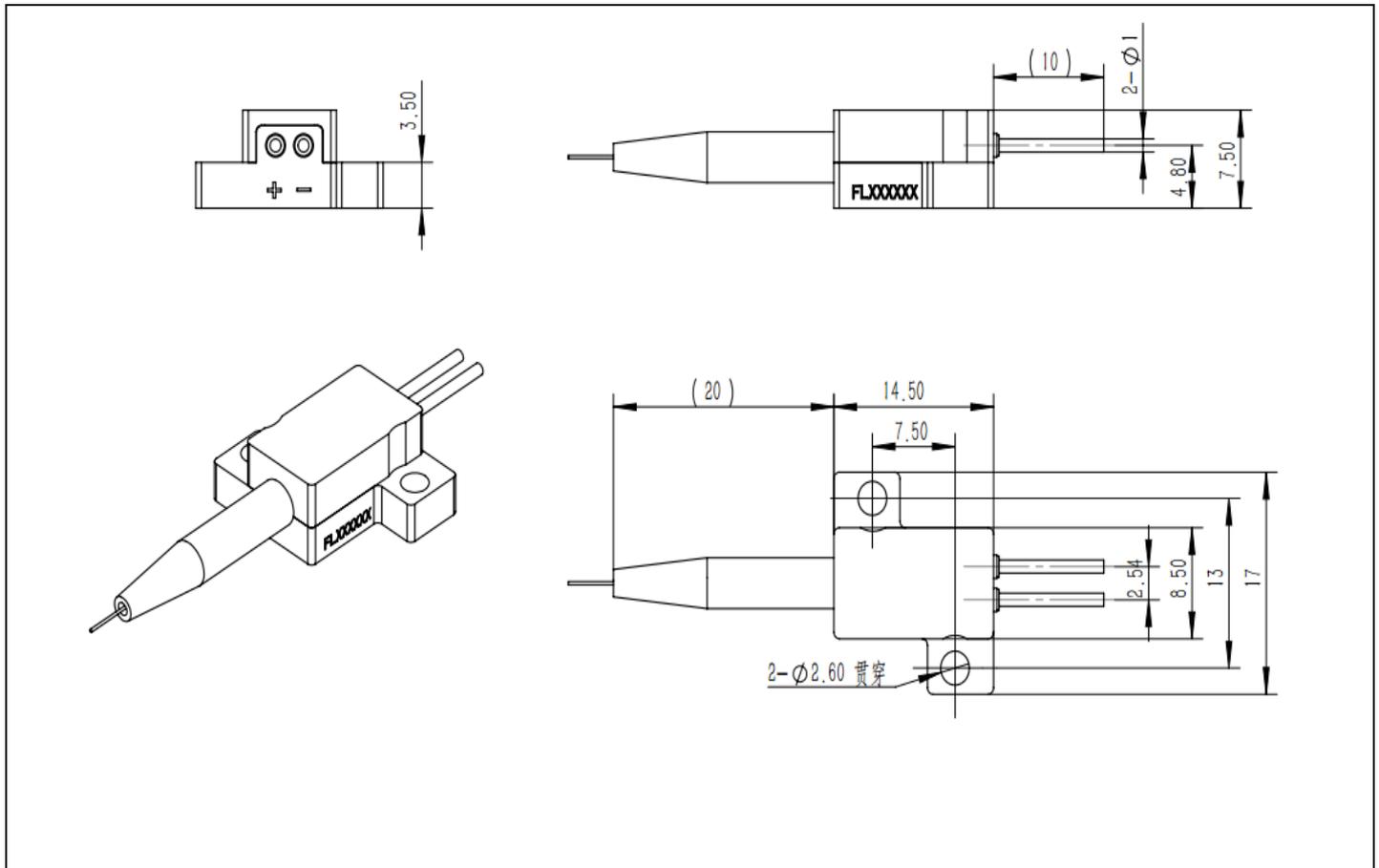
Features

- High power
- High coupling efficiency
- High brightness
- Long lifetime

Applications

- Pumping
- Printing
- Scientific research
- Medical
- Industry

Device Dimension (mm)



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

Specification

Module Type ¹	Units	FL-FCSE08- 2-808	FL-FCSE08- 7-808	FL-FCSE08-8- 9XX	FL-FCSE08- 2-1470	FL-FCSE08- 2-1550
Optical ^{3,7}						
Center Wavelength λ	nm	808	808	915/940/976	1470	1550
Wavelength Tolerance	nm	± 3	± 3	± 5	± 20	± 20
Output Power ²	W	2	7	8	2	2
Spectral Width FWHM	nm	≤ 3	≤ 3	≤ 6	≤ 10	≤ 10
Spectral Width FW90%E	nm	≤ 4	≤ 4	/	/	/
Wavelength Temp. Coefficient/nm/°C		~ 0.28	~ 0.28	~ 0.33	/	/
Feedback Protection(1040n dB		/	/	30	/	/
Fiber Parameters						
Fiber Numerical Aperture	NA	0.15	0.22	0.15/0.22	0.15/0.22	0.15/0.22
Fiber Core/Cladding Diameter	μm	105/125	200/220	105/125	105/125	105/125
Connector Type ⁶	-	SC	SMA905	SMA905	SMA905	SMA905
Fiber length ⁵	m	1.5	1.5	1.5	1.5	1.5
Electrical Parameters ^{3,7}						
Operating Current I_{op}	A	≤ 3	≤ 9.2	≤ 10.2	≤ 8	≤ 9
Threshold Current I_{th}	A	≤ 0.6	≤ 1.8	≤ 0.9	≤ 0.9	≤ 0.9
Operating Voltage V_{op}	V	≤ 2.2	≤ 2.2	≤ 2	≤ 1.5	≤ 1.5
Slope Efficiency	W/A	≥ 0.85	≥ 0.9	≥ 0.65	≥ 0.25	≥ 0.25
Power Conversion Efficiency	%	≥ 40	≥ 40	≥ 40	≥ 18	≥ 18
Thermal Parameters						
Operating Temperature	°C	10~40	10~40	10~40	10~40	10~40
Storage Temperature ⁴	°C	-20~80	-20~80	-20~80	-20~80	-20~80
Recommended Thermal Dissipation Capacity	W	≥ 6	≥ 20	≥ 25	≥ 25	≥ 25

¹Explanation for the name of Module Type:FL (abbreviation of Focuslight) -FCSE08(structure code) -7(output power) -808(center wavelength).

²Reduced lifetime if used above nominal operating conditions.

³Data at 25°C temperature, unless otherwise stated.

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

⁵Fiber length can be specified by customer.

⁶Can be with or without fiber connector (SMA905/FC/bare) .

⁷If there are any other requirements, please contact us.

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