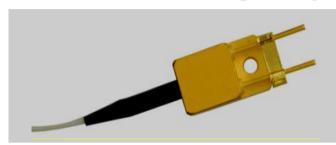


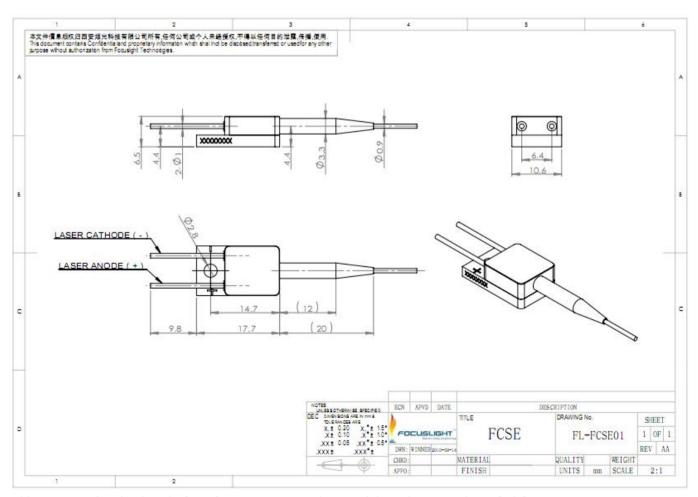
Fiber Coupled Single Emitter Diode Laser (CW)



Features

- Long lifetime
- High power
- High coupling efficiency
- Parallel seam sealing

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-FCSE01-2- 808	FL-FCSE01-2.5- 808	FL-FCSE01-5- 808	FL-FCSE03-7- 808	FL-FCSE03-8- 808		
Optical 3,7								
Center Wavelength λ	nm	808	808	808	808	808		
Wavelength Tolerance	nm	±3	±3	±3	±3	±3		
Output Power ²	W	2	2.5	5	7	8		
Spectral Width FWHM	nm	€3	€3	€3	€3	€3		
Spectral Width FW90%E	nm	€5	≪4	≪4	≪4	€5		
Wavelength Temp. Coefficient	nm/°C	~0.28	~0.28	~0.28	~0.28	~0.28		
Fiber Parameters	,							
Fiber Numerical Aperture	NA	0.15/0.22	0.15/0.22	0.22	0.22	0.22		
Fiber Core/Cladding Diameter	μm	105/125 or 200/220	105/125 or 200/220	200/220	200/220	200/220		
Connector Type ⁶	-	SC ferrule	SC ferrule	SMA905	SMA905	SMA905		
Fiber length ⁵	m	1.5/2	1.5/2	1.5/2	1.5/2	1.5/2		
Electrical Parameters 3,7	•							
Operating Current I _{op}	A	≤2.8	€3	≤6.5	≤8.5	≤11		
Threshold Current Ith	A	≤0.45	≤0.6	≤0.9	≤1.0	≤1.75		
Operating Voltage V _{op}	V	€2	≤2.2	≤2.2	≤2.1	€2.2		
Slope Efficiency	W/A	≥0.85	≥0.85	≥0.9	≥0.9	≥0.9		
Power Conversion Efficiency	%	≥40	≥40	≥40	≥40	≥40		
Thermal Parameters	,							
Operating Temperature	$^{\circ}$	C 20~30						
Storage Temperature 4	$^{\circ}$	-40~60						
Recommended Thermal Dissipation Capacity	W	≥5	≥7	≥12	≥16	≥20		

¹Explanation for the name of Module Type: FL (abbreviation of Focusligth) -FCSE01 (structure code) -2 (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.

⁵ Fiber length can be specified by customer.

⁶Can be with or without fiber connector.

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

Specification

Module Type ¹	Units	FL-FCSE01-3-915	FL-FCSE01-8-915	FL-FCSE01-3-976	FL-FCSE01-8-976			
Optical ^{3,7}		•						
Center Wavelength λ	nm	915	915	976	976			
Wavelength Tolerance	nm	±5	±5	±5	±5			
Output Power ²	W	3	8	3	8			
Spectral Width FWHM	nm	€3	€3	≪4	≤4.5			
Spectral Width FW90%E	nm	€5	€5	≤6	≤6.5			
Wavelength Temp. Coefficient	nm/℃	~0.32	~0.32	~0.34	~0.34			
Fiber Parameters								
Fiber Numerical Aperture	NA	0.15	0.15	0.15	0.15			
Fiber Core/Cladding Diameter	μm	105/125	105/125	105/125	105/125			
Fiber length ⁵	m	1.5/2	1.5/2	1.5/2	1.5/2			
Electrical Parameters 3,7								
Operating Current I _{op}	A	€5	≤9.5	≤4.5	≤9			
Threshold Current I _{th}	A	≤0.46	≤0.8	≤0.42	≤0.7			
Operating Voltage V _{op}	V	€2	€2	€2	€2			
Slope Efficiency	W/A	≥0.9	≥0.9	≥0.9	≥0.9			
Power Conversion Efficiency	%	≥45	≥40	≥40	≥42			
Thermal Parameters								
Operating Temperature	$^{\circ}$	20~30						
Storage Temperature ⁴	$^{\circ}$	-40~60						
Recommended Thermal Dissipation Capacity	W	≥7	≥20	≥ 7	≥20			

Explanation for the name of Module Type: FL (abbreviation of Focusligth) -FCSE01 (structure code) -3 (output power) -915 (center wavelength)

Notice

Focuslight keep improving its products to provide our customers with outstanding quality and reliability. We may make changes to specifications and product descriptions at any time, without notice. In addition, we offer a limited warranty to ensure customer satisfaction. For complete details, please contact our sales representative.





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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.

⁵ Fiber length can be specified by customer.

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

Device Dimension (mm)

