

Conduction Cooled Single Bar Diode Laser (QCW)



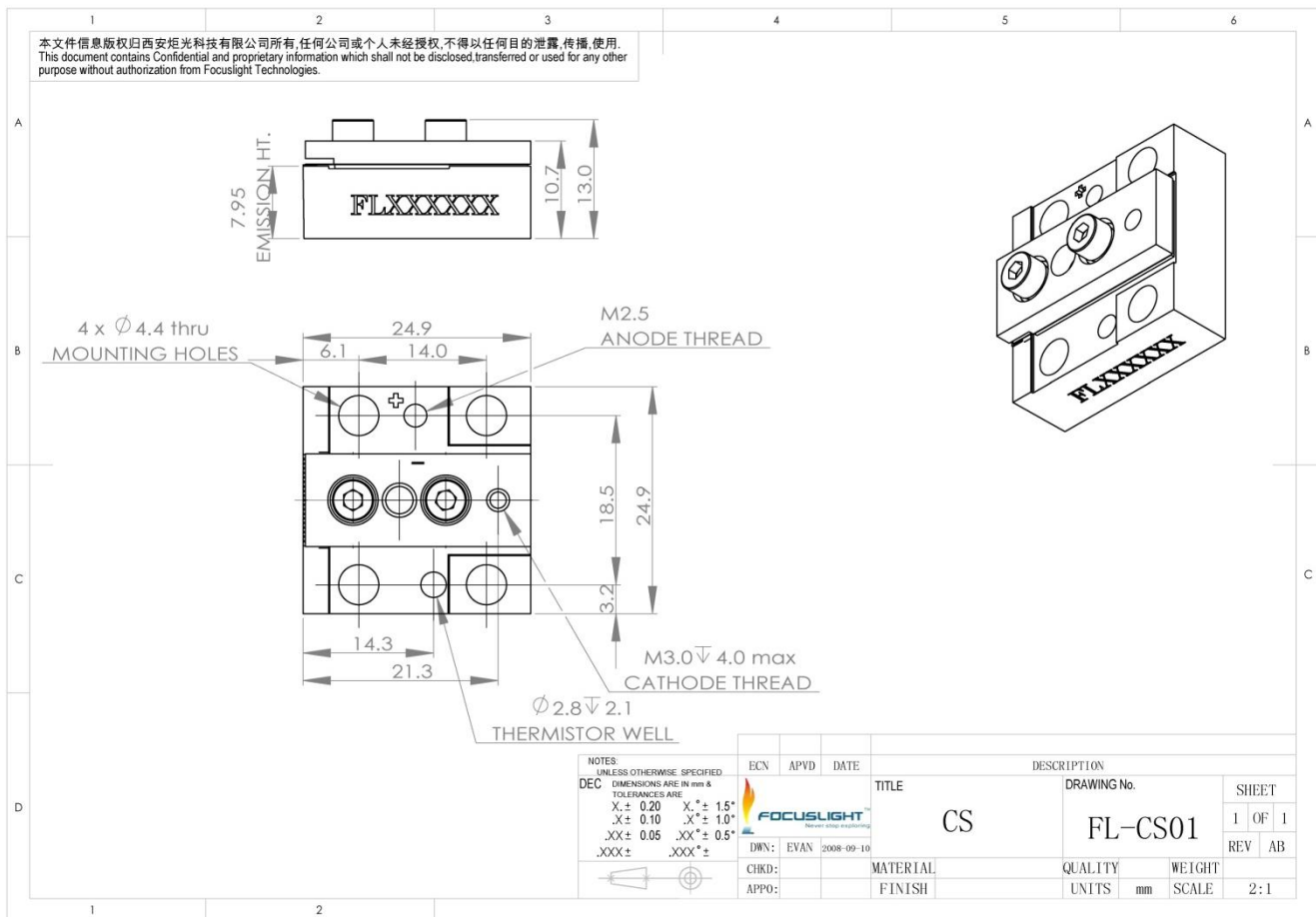
Features

- Long lifetime
- Low smile
- High power
- Narrow spectrum

Applications

- Pumping
- Printing
- Scientific research
- Medical
- Industry

Device Dimension (mm)



This structure drawing is only for reference. More structure drawings can be found below the datasheet. For any other special requirement, please feel free to contact us.

Conduction Cooled Single Bar Diode Laser (QCW)

Specification

Module Type ¹	Units	FL-CS01-150-808(Q)	FL-CS01-200-808(Q)	FL-CS01-250-808(Q)	FL-CS01-200-940(Q)	FL-CS01-250-940(Q)
Optical ^{3,7}						
Center Wavelength λ	nm	808	808	808	940	940
Wavelength Tolerance	nm	± 3	± 3	± 3	± 5	± 5
Output Power ²	W	150	200	250	200	250
Pulse Width	ms	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3
Duty Cycle	%	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10
Spectral Width FWHM	nm	≤ 4	≤ 4	≤ 4	≤ 4	≤ 4
Spectral Width FW90%E	nm	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7
Fast Axis Divergence(FWHM) ^{4,6}	degree	40	40	40	40	40
Slow Axis Divergence (FWHM)	degree	8	8	8	8	8
Polarization Mode	-	TE	TE	TE	TE	TE
Wavelength Temp. Coefficient	nm/°C	~ 0.28	~ 0.28	~ 0.28	~ 0.33	~ 0.33
Electrical Parameters ^{3,7}						
Operating Current I_{op}	A	≤ 145	≤ 200	≤ 250	≤ 200	≤ 250
Threshold Current I_{th}	A	≤ 25	≤ 30	≤ 30	≤ 20	≤ 20
Operating Voltage V_{op}	V	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2
Slope Efficiency	W/A	≥ 1.1	≥ 1.1	≥ 1.1	≥ 1.1	≥ 1.1
Power Conversion Efficiency	%	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50
Thermal Parameters						
Operating Temperature	°C	15~30	15~30	15~30	15~30	15~30
Storage Temperature ⁵	°C	0~55	0~55	0~55	0~55	0~55
Recommended Heatsink Capacity	W	≥ 30	≥ 40	≥ 50	≥ 40	≥ 50

¹Explanation for the name of Module Type: FL(abbreviation of Focuslight) -CS01(structure code) -150(output power) -808(center wavelength)(Q:QCW).

²Reduced lifetime if used above nominal operating conditions.

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

⁴For fast axis collimation: divergence $< 0.5^\circ$.

⁵A non-condensing environment is required for storage and operation below ambient dew point.

⁶For smile requirements, please contact us.

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



Focuslight Technologies Co., Ltd.

Add: No.17 Xinxu Road, New Industrial Park
Xi'an, Shaanxi, P.R.China 710119

Tel: +86-29 8888 0786

Fax: +86-29 8888 7075

Email: sales@focuslight.com.cn

Website: www.focuslight.com.cn

Copyright ©2009 Focuslight. All rights reserved.



Device Dimension (mm)

