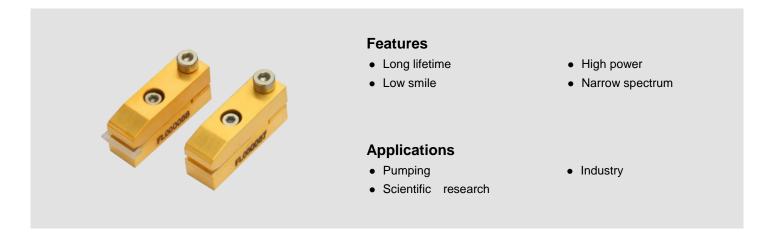
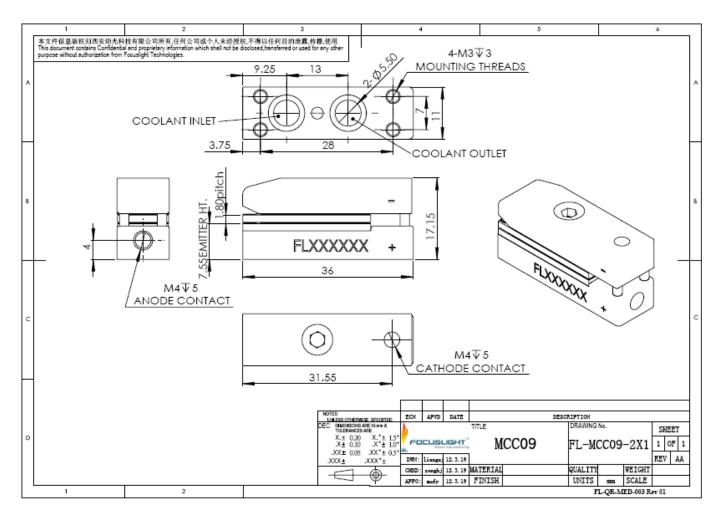
## Micro-Channel Water Cooled Single Bar Diode Laser (QCW)



## **Device Dimension (mm)**



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

## Micro-Channel Water Cooled Single Bar Diode Laser (QCW)

## **Specification**

Module Type <sup>1</sup>	Units	FL-MCC09- 150-808(Q)	FL-MCC09- 200-808(Q)	FL-MCC09- 250-808(Q)	FL-MCC09- 200-940(Q)	FL-MCC09- 250-940(Q)	FL-MCC09- 300-940(Q)
Optical <sup>3,7</sup>							
Center Wavelength $\lambda$	nm	808	808	808	940	940	940
Wavelength Tolerance	nm	±3	±3	±3	±5	±5	±5
Output Power <sup>2</sup>	W	150	200	250	200	250	300
Spectral Width FWHM	nm	≪4	≪4	≤3.5	≪6	≪4	≪6
Spectral Width FW90%E	nm	≪6	≪6	≪6	≪8	≪6	≪8
Fast Axis Divergence(FWHM) 4,6	degree	35	35	35	35	35	35
Slow Axis Divergence (FWHM)	degree	8	8	8	8	8	8
Pulse Width	ms	≪0.3	≪0.2	≪0.2	≪0.3	≪0.2	≪0.2
Duty Cycle	%	≤10	≪10	≪10	≪10	≪8	≪4
Polarization Mode	-	TE	TE	TE	TE	TE	TE
Wavelength Temp. Coefficient	<b>nm/℃</b>	~0.28	~0.28	~0.28	~0.33	~0.33	~0.33
Electrical Parameters <sup>3,7</sup>							
Operating Current Iop	А	≤160	≤180	≤250	≤200	≤250	≤300
Threshold Current Ith	А	≤15	≪30	≤26	≤18	≤18	≤18
Operating Voltage V <sub>op</sub>	V	≤2	≤2	≤2	≤2	≤2	≤2
Slope Efficiency	W/A	≥1	≥1.1	≥1.15	≥1.1	≥1.1	≥1.1
Power Conversion Efficiency	%	≥45	≥50	≥50	≥50	≥50	≥50
Thermal Parameters							
Operating Temperature	°C	15~30	15~30	15~30	15~30	15~30	15~30
Storage Temperature <sup>5</sup>	°C	0~55	0~55	0~55	0~55	0~55	0~55
Coolant	- Deionized Water Deionized Water Deionized Water Deionized Water Deionized Water						
Flow Rate/Bar	L/min	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7
Max Inlet Pressure	kPa	380	380	380	380	380	380
Resistivity	MΩ*cm	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5

<sup>1</sup>Explanation for the name of Module Type: FL(abbreviation of Focuslight) –MCC09(structure code) -150(output power) -808(center wavelength)(Q:QCW).

<sup>2</sup>Reduced lifetime if used above nominal operating conditions.

<sup>3</sup>Data at 25°C temperature, unless otherwise stated.

<sup>4</sup>For fast axis collimation: divergence <0.5°.

<sup>5</sup>A non-condensing environment is required for storage and operation below ambient dew point

<sup>6</sup>For smile requirements, please contact us.

<sup>7</sup>If there are any other requirements, please contact us.



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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.