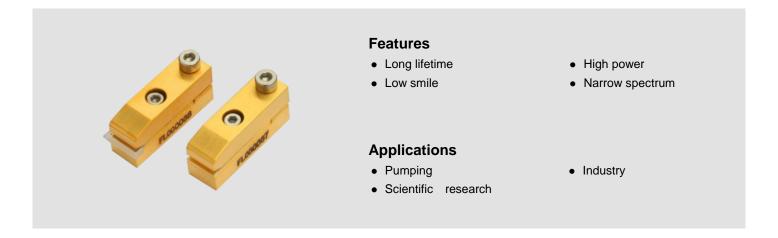
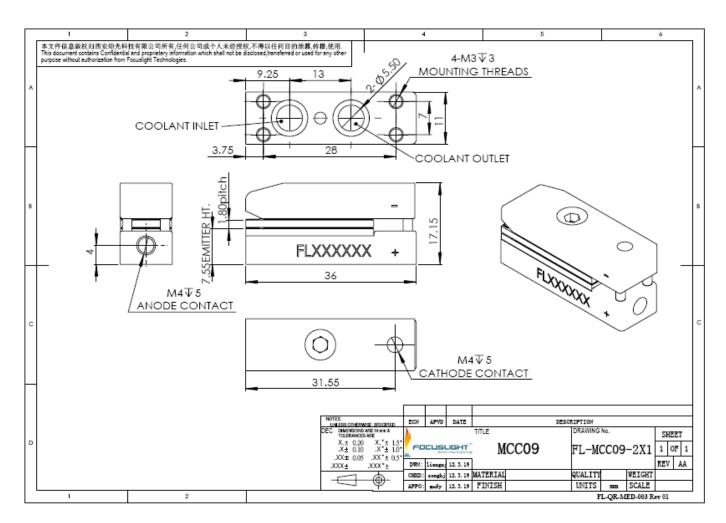


Micro-Channel Water Cooled Single Bar Diode Laser (QCW)



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 ¹	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 ^{3,7}							
Center Wavelength λ	nm	808	808	808	940	940	940
Wavelength Tolerance	nm	±3	±3	±3	±5	±5	±5
Output Power ²	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)	' 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	nm/℃	~0.28	~0.28	~0.28	~0.33	~0.33	~0.33
Electrical Parameters ^{3,7}							
Operating Current I _{op}	Α	≤160	≤180	≤250	≤200	≤250	≤300
Threshold Current I _{th}	Α	≤15	≤30	≤26	≤18	≤18	≤18
Operating Voltage V _{op}	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	$^{\circ}\!\mathbb{C}$	15~30	15~30	15~30	15~30	15~30	15~30
Storage Temperature ⁵	$^{\circ}\!\mathbb{C}$	0~55	0~55	0~55	0~55	0~55	0~55
Coolant	-	DI 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

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

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²Reduced lifetime if used above nominal operating conditions.

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

⁴For fast axis collimation: divergence <0.5°.

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.