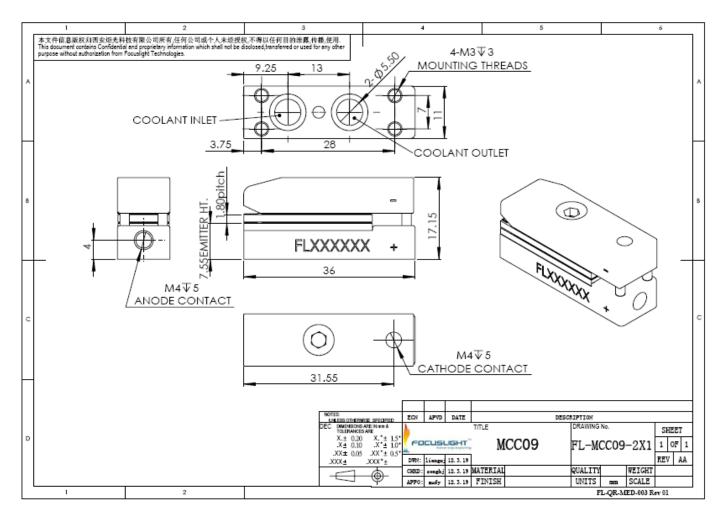


Device Dimension (mm)



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

Specification

Module Type ¹	Units	FL-MCC09- 60-792	FL-MCC09- 60-808	FL-MCC09- 80-808	FL-MCC09- 100-808	FL-MCC09- 60-825
Optical ^{3,7}						
Center Wavelength λ	nm	792	808	808	808	825
Wavelength Tolerance	nm	±3	±3	±3	±3	±3
Output Power ²	W	60	60	80	100	60
Spectral Width FWHM	nm	≪3	≤3	≤3	≤3	≤3
Spectral Width FW90%E	nm	≪6	≪6	≪6	≪6	≪6
Fast Axis Divergence(FWHM) ⁴	degree	35	35	35	35	35
Slow Axis Divergence (FWHM)	degree	8	8	8	8	8
Polarization Mode	-	TE	TE/TM	TE	TE/TM	TE/TM
Wavelength Temp. Coefficient	nm/° C	~0.28	~0.28	~0.28	~0.28	~0.28
Electrical Parameters ^{3,7}						
Operating Current I _{op}	А	≤70	≤72	≪90	≤116	≤75
Threshold Current Ith	А	≤13	≤18	≤22	≪26	≤17
Operating Voltage V _{op}	V	≤2	≤2	≤2	≤2	≤2
Slope Efficiency	W/A	≥1.1	≥1.1	≥1.05	≥1.0	≥1
Power Conversion Efficiency	%	≥48	≥46	≥48	≥42	≥48
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
Coolant	-	DI Water	DI Water	DI Water	DI Water	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
Max Inlet Pressure	kPa	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

¹Explanation for the name of Module Type: FL(abbreviation of Focuslight) –MCC05(structure code) -40(output power) -808(center wavelength).

²Reduced lifetime if used above nominal operating conditions.

 $^{3}\mbox{Data}$ at 25°C temperature, unless otherwise stated.

 4 For 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.

Specification

Module Type ¹	Units	FL-MCC09- 60-880	FL-MCC09- 80-915	FL-MCC09- 120-915	FL-MCC09- 80-940	FL-MCC09- 100-940
Optical ^{3,7}						
Center Wavelength λ	nm	880	915	915	940	940
Wavelength Tolerance	nm	±3	±3	±5	±3	±5
Output Power ²	W	60	80	120	80	100
Spectral Width FWHM	nm	≤3	≪4	≤5	≪4	≪3
Spectral Width FW90%E	nm	≪6	≤7	≪8	≤7	≪8
Fast Axis Divergence(FWHM) 4	degree	35	35	35	35	35
Slow Axis Divergence (FWHM)	degree	8	8	8	8	8
Polarization Mode	-	TE	TE	TE	TE	TE
Wavelength Temp. Coefficient	nm/℃	~0.30	~0.32	~0.32	~0.33	~0.33
Electrical Parameters ^{3,7}						
Operating Current I _{op}	А	≪65	≪82	≤120	≪85	≤105
Threshold Current Ith	А	≤12	≪8	≤20	≤15	≤15
Operating Voltage V _{op}	V	≤2	≤2	≤2	≤2	≤2
Slope Efficiency	W/A	≥1.1	≥1.05	≥1.1	≥1.05	≥1.05
Power Conversion Efficiency	%	≥55	≥52	≥50	≥52	≥52
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
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
Max Inlet Pressure	kPa	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

¹Explanation for the name of Module Type: FL(abbreviation of Focuslight) –MCC05(structure code) -40(output power) -808(center wavelength).

²Reduced lifetime if used above nominal operating conditions.

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

 4 For fast axis collimation: divergence <0.5°.

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Specification

Module Type ¹	Units	FL-MCC09- 120-940	FL-MCC09- 60-976	FL-MCC09- 80-976	FL-MCC09- 100-976	FL-MCC09- 120-976	
Optical ^{3,7}							
Center Wavelength λ	nm	940	976	976	976	976	
Wavelength Tolerance	nm	±5	±5	±3	±5	±5	
Output Power ²	W	120	60	80	100	120	
Spectral Width FWHM	nm	≪5	≤3	≪4	≤3	≤5	
Spectral Width FW90%E	nm	≪8	≪6	≤7	≪6	≪8	
Fast Axis Divergence(FWHM) 4	degree	35	35	35	35	35	
Slow Axis Divergence (FWHM)	degree	8	8	8	8	8	
Polarization Mode	-	TE	TE	TE	TE	TE	
Wavelength Temp. Coefficient	nm/°C	~0.33	~0.34	~0.34	~0.34	~0.34	
Electrical Parameters ^{3,7}							
Operating Current Iop	А	≤120	≪65	≤88	≤105	≤120	
Threshold Current Ith	А	≤20	≤7	≪9	≤7	≤20	
Operating Voltage V _{op}	V	≤2	≤2	≤2	≤2	≤2	
Slope Efficiency	W/A	≥1.1	≥1.05	≥0.95	≥0.95	≥1.1	
Power Conversion Efficiency	%	≥50	≥55	≥52	≥52	≥50	
Thermal Parameters							
Operating Temperature	°C	15~30	15~35	15~35	15~35	15~35	
Storage Temperature ⁵	°C	0~55	-40~60	-40~60	-40~60	-40~60	
Coolant	-	Deionized Water Deionized Water Deionized Water Deionized Water Deionized Water					
Flow Rate/Bar	L/min	0.4-0.7	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5	
Max Inlet Pressure	kPa	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	

¹Explanation for the name of Module Type: FL(abbreviation of Focuslight) –MCC05(structure code) -40(output power) -808(center wavelength).

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.



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