

FocusEngine™

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

MCC09



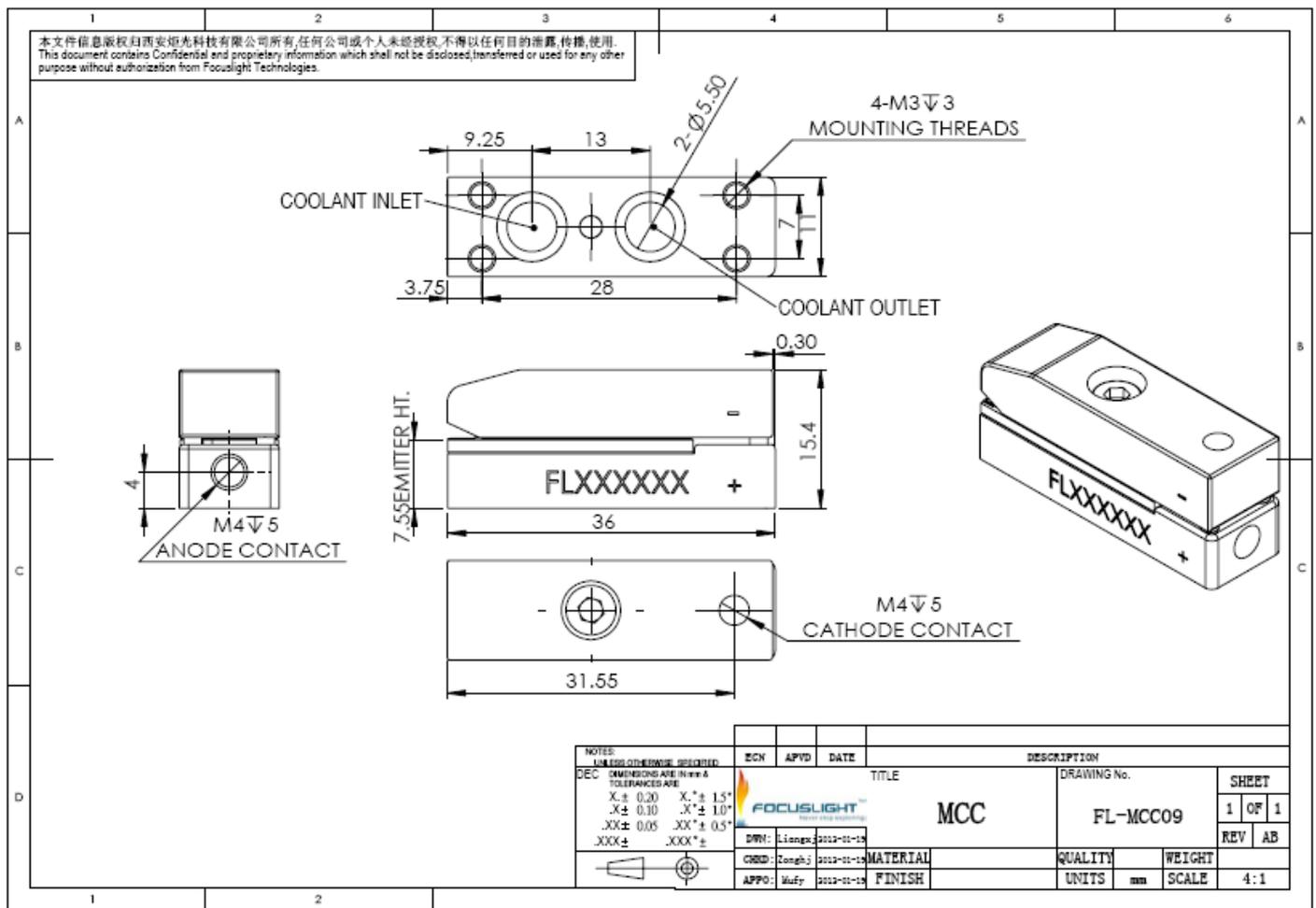
Features

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

Applications

- Pumping
- Scientific research
- Industry

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-MCC09-100-808	FL-MCC09-120-976
Optical ²			
Center Wavelength λ	nm	808	976
Wavelength Tolerance	nm	± 3	± 5
Output Power	W	100	120
Number of the bar	-	1	1
Number of the bar available	-	1~2	1~2
Spectral Width FWHM	nm	≤ 4	≤ 5
Spectral Width FW90%E	nm	≤ 6	≤ 8
Fast Axis Divergence(FWHM) ³	degree	35	35
Slow Axis Divergence (FWHM)	degree	8	8
Polarization Mode	-	TE/TM	TE
Wavelength Temp. Coefficient	nm/°C	-0.28	-0.34
Electrical Parameters			
Operating Current I_{op}	A	≤ 120	≤ 120
Threshold Current I_{th}	A	≤ 25	≤ 20
Operating Voltage V_{op} ⁴	V	≤ 2	≤ 2
Slope Efficiency ⁴	W/A	≥ 1.0	≥ 1.1
Power Conversion Efficiency	%	≥ 48	≥ 55
Thermal Parameters			
Operating Temperature ⁵	°C	20~30	20~30
Storage Temperature ⁶	°C	0~55	0~55
Coolant	-	DI Water	DI Water
Flow Rate ⁴	L/min	0.3-0.4	0.3-0.4
Max Inlet Pressure	kPa	380	380
Conductivity	$\mu\text{S/cm}$	< 5	< 5

¹ FL(abbreviation of Focuslight) –MCC09(structure code) -100(output power) -808(center wavelength).

² Data at 25°C temperature, unless otherwise stated.

³ For fast axis collimation: divergence $\leq 0.5^\circ$.

⁴Parameters for single Bar.

⁵.Reduced lifetime if used above nominal operating conditions.

⁶A non-condensing environment is required for storage and operation below ambient dew point.

If there are any other requirements, please contact us.



Focuslight Technologies Inc.

Add: 56 Zhangba 6th Road, High-Tech Zone

Xi'an, Shaanxi 710077, P. R. China

Tel: +86 29 8956 0050

Fax: +86 29 8177 5810

Email: sales@focuslight.com.cn

Website: www.focuslight.com.cn

Copyright ©2015 Focuslight. All rights reserved.

