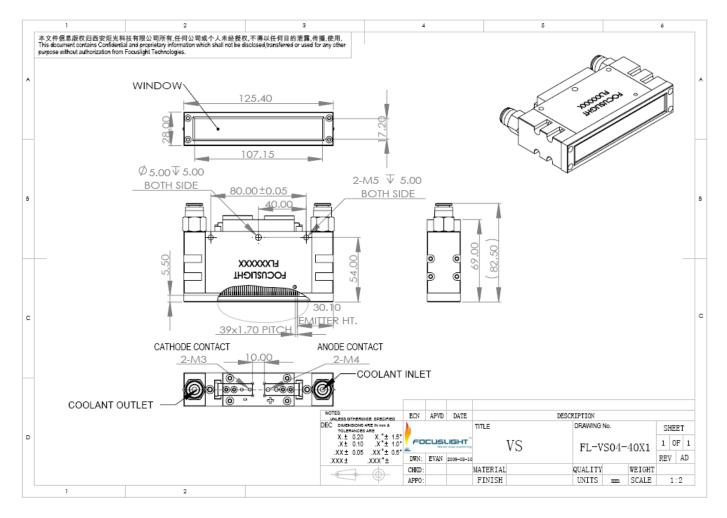
FOCUSLIGHT

Macro-Channel Water Cooled Vertical Stack Diode Laser(QCW)



- - AuSn bonding
 - · Long storage time
 - Industry

Device Dimension (mm)



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

Macro-Channel Water Cooled Vertical Stack Diode Laser(QCW)

Specification

| Module Type ¹ | Units | FL-VS**-N- ##-808(Q) | FL-VS**-N- ##-808(Q) | FL-VS**-N- ##-808(Q) | FL-VS**-N- ##-808(Q) | FL-VS**-N- ##-940(Q) | FL-VS**-N- ##-940(Q) | FL-VS**-N- ##-940(Q) |
|-----------------------------------|---------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Optical ^{3,7} | | | | | | | | |
| Center Wavelength λ | nm | 808 | 808 | 808 | 808 | 940 | 940 | 940 |
| Wavelength Tolerance | nm | ±3 | ±3 | ±3 | ±3 | ±5 | ±5 | ±5 |
| Output Power ² | W | 150 | 200 | 250 | 300 | 200 | 250 | 300 |
| Number of Bars | - | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| Bar-to-Bar Spacing | mm | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| Spectral Width FWHM | nm | ≪6 | ≪4 | ≪4 | ≪4 | ≪6 | ≪6 | ≪6 |
| Spectral Width FW90%E | nm | ≪8 | ≪6 | ≪8 | ≤7 | ≪8 | ≪8 | ≪8 |
| Pulse Width | ms | ≪0.3 | ≪0.3 | ≪0.3 | ≪0.2 | ≪0.3 | ≪0.3 | ≪0.2 |
| Duty Cycle | % | ≪4 | ≪4 | ≪4 | ≤2 | ≪4 | ≪4 | ≤2 |
| Fast Axis Divergence(FWHM) 4, | ⁶ degree | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| Slow Axis Divergence (FWHM) | degree | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Polarization Mode | - | TE |
| Wavelength Temp. Coefficient | nm/°C | \sim 0.28 | \sim 0.28 | ~0.28 | ~0.28 | ~0.33 | ~0.32 | ~0.32 |
| Electrical Parameters 3,7 | | | | | | | | |
| Operating Current I _{op} | А | ≤170 | ≤190 | ≤250 | ≪300 | ≤200 | ≤250 | ≤300 |
| Threshold Current Ith | А | ≪15 | ≤25 | ≤32 | ≤32 | ≤18 | ≤18 | ≪18 |
| Operating Voltage V_{op} | V | ≦2 | ≦2 | ≦2 | ≦2 | ≦2 | ≦2 | ≦2 |
| Slope Efficiency | W/A | ≥1 | ≥1.1 | ≥1.15 | ≥1.1 | ≥1.05 | ≥1.1 | ≥1.1 |
| Power Conversion Efficiency | % | ≥42 | ≥50 | ≥52 | ≥50 | ≥50 | ≥50 | ≥50 |
| Thermal Parameters | | | | | | | | |
| Operating Temperature | °C | 15~25 | 15~25 | 15~25 | 15~25 | 15~25 | 15~25 | 15~25 |
| Storage Temperature ⁵ | °C | 0~55 | 0~55 | 0~55 | 0~55 | 0~55 | 0~55 | 0~55 |
| Coolant | - | 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 | 0.4~0.7 |
| Max Inlet Pressure | kPa | 380 | 380 | 380 | 380 | 380 | 380 | 380 |

¹Explanation for the name of Module Type: FL(abbreviation of Focuslight) –VS**(structure code) –N(Number of Bars) -##(Power) -808(center wavelength)(Q:QCW).

²Reduced lifetime if used above nominal operating conditions.

³Data 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.



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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.