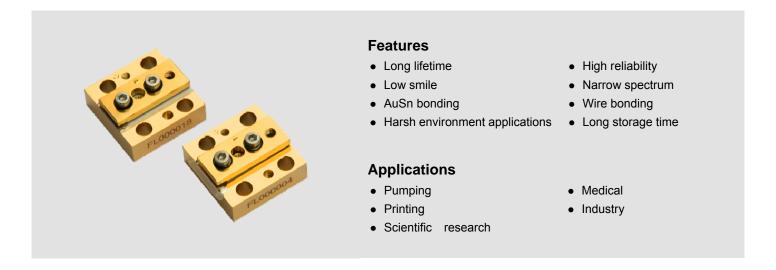
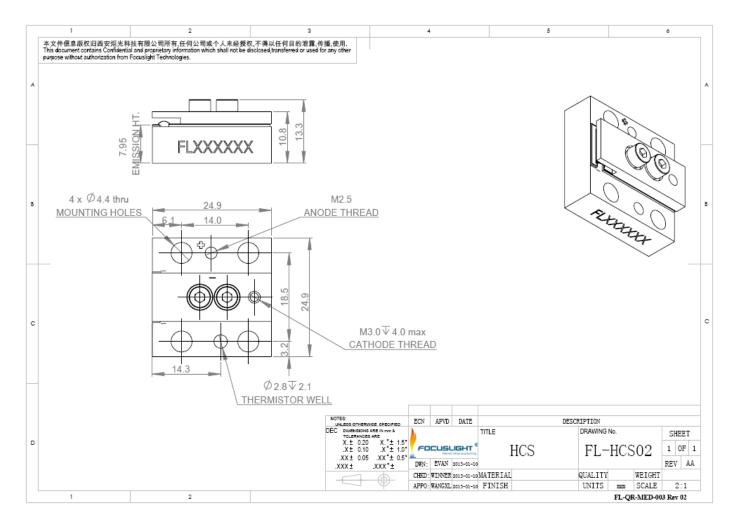


## Hard Solder Conduction Cooled Single Bar Diode Laser (QCW)



#### **Device Dimension (mm)**



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



# Hard Solder Conduction Cooled Single Bar Diode Laser (QCW)

### **Specification**

Module Type <sup>1</sup>	Units	FL-HCS02- 250-808(Q)
Optical <sup>3,8</sup>		
Center Wavelength λ	nm	808
Wavelength Tolerance	nm	±3
Output Power <sup>2</sup>	W	250
Pulse Width	ms	≤0.3
Duty Cycle	%	≤10
Spectral Width FWHM	nm	≤5
Spectral Width FW90%E	nm	<b>≤</b> 7
Fast Axis Divergence(FWHM) 4,7	degree	40
Slow Axis Divergence (FWHM) <sup>5</sup>	degree	8
Polarization Mode	-	TE
Wavelength Temp. Coefficient	nm/℃	~0.28
Electrical Parameters <sup>3,8</sup>		
Operating Current I <sub>op</sub>	Α	≤240
Threshold Current I <sub>th</sub>	Α	≤25
Operating Voltage V <sub>op</sub>	V	≤2
Slope Efficiency	W/A	≥1.1
Power Conversion Efficiency	%	≥55
Thermal Parameters		
Operating Temperature	${\mathbb C}$	15~35
Storage Temperature <sup>6</sup>	${\mathbb C}$	-40~55
Recommended Heatsink Capacity	W	≥50

<sup>&</sup>lt;sup>1</sup>Explanation for the name of Module Type: FL(abbreviation of Focuslight) -HCS02(structure code) -250(output power) -808(center wavelength).(Q:QCW)

<sup>&</sup>lt;sup>8</sup>If there are any other requirements, please contact us.



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

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

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

<sup>&</sup>lt;sup>5</sup>Slow axis collimation is available for bars with fill factor ≤30%.

<sup>&</sup>lt;sup>6</sup>A non-condensing environment is required for storage and operation below ambient dew point.

<sup>&</sup>lt;sup>7</sup>For smile requirements, please contact us.