

Hard Solder Conduction Cooled Single Bar Diode Laser (QCW)

Specification

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

¹Explanation for the name of Module Type: FL(abbreviation of Focuslight) -HCS02(structure code) -250(output power) -808(center wavelength).(Q:QCW)

²Reduced lifetime if used above nominal operating conditions.

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

⁴For fast axis collimation: divergence $< 0.5^\circ$.

⁵Slow axis collimation is available for bars with fill factor $\leq 30\%$.

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

⁷For smile requirements, please contact us.

⁸If 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

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