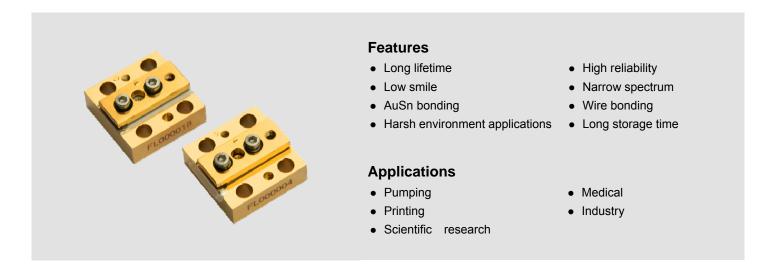
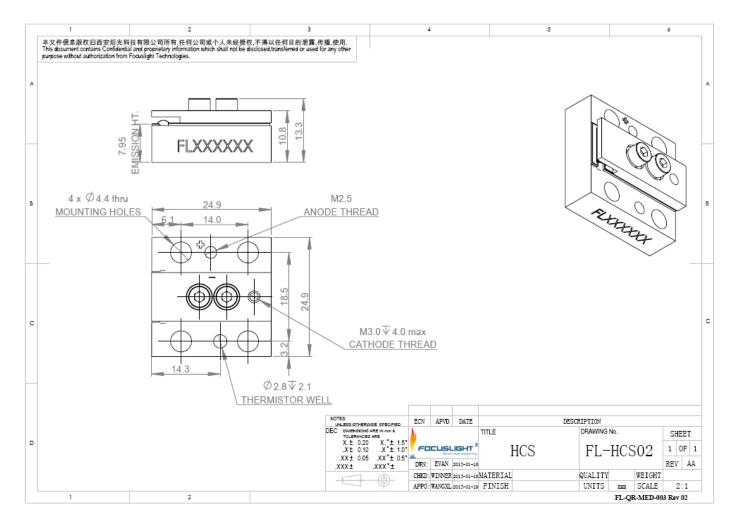


Hard Solder Conduction Cooled Single Bar Diode Laser (CW)



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 (CW)

Specification

Module Type ¹	Units	FL-HCS02- 50-792	FL-HCS02- 50-808	FL-HCS02- 50-825	FL-HCS02- 80-915	FL-HCS02- 80-940	FL-HCS02- 80-976
Optical ^{3,6}							
Center Wavelength λ	nm	792	808	825	915	940	976 / 980
Wavelength Tolerance	nm	±3	±3	±3	±5	±5	±5
Output Power ²	W	50	50	50	80	80	80
Number of Emitters	#	19	19	19	19	19	19
Emitter Size	um	150	100/150	150	100/150	100/150	100/150
Fill Factor	%	30	20/30	30	20/30	20/30	20/30
Spectral Width FWHM	nm	≤ 3	≤ 3	≪4	≪4	≪4	≪4
Spectral Width FW90%E	nm	≤ 5	≤ 5	≪6	≪6	≪6	≪6
Fast Axis Divergence(FWHM	degree	~35	~35	~35	~40	~40	~40
Slow Axis Divergence (FWHI)	degree	~8	~8	~8	~8	~8	~8
Polarization Mode	-	TE	TE	TM/TE	TE	TE	TE
Wavelength Temp. Coefficier	nm/℃	~0.28	~0.28	~0.28	~0.33	~0.33	~0.33
Electrical Parameters 3,6							
Operating Current I _{op}	Α	≤60	≤60	≤60	≤90	€90	≤90
Threshold Current I _{th}	Α	≤15	≤15	≤15	≤10	≤10	≤10
Operating Voltage V _{op}	V	≤2	≤2	≤2	≤2	≤2	≤2
Slope Efficiency	W/A	≥1.0	≥1.0	≥1.1	≥1.1	≥1.1	≥1.1
Power Conversion Efficiency	%	≥45	≥ 45	≥ 45	≥50	≥50	≥55
Thermal Parameters							
Operating Temperature	$^{\circ}$	15~35	15~35	15~35	15~35	15~35	15~35
Storage Temperature ⁴	$^{\circ}\! \mathbb{C}$	-40~55	-40~55	-40~55	-40~55	-40~55	-40~55
Recommended Heatsink Cap	W	≥100	≥100	≥100	≥160	≥160	≥160

⁶If there are any other requirements, please contact us.



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¹Explanation for the name of Module Type: FL(abbreviation of Focuslight) -HCS02(structure code) -50(output power) -792(center wavelength)

²Reduced lifetime if used above nominal operating conditions.

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

⁴A non-condensing environment is required for storage and operation below ambient dew point.

⁵For smile requirements, please contact us.