

Hard Solder Conduction Cooled Single Bar Diode Laser (CW) HCS02



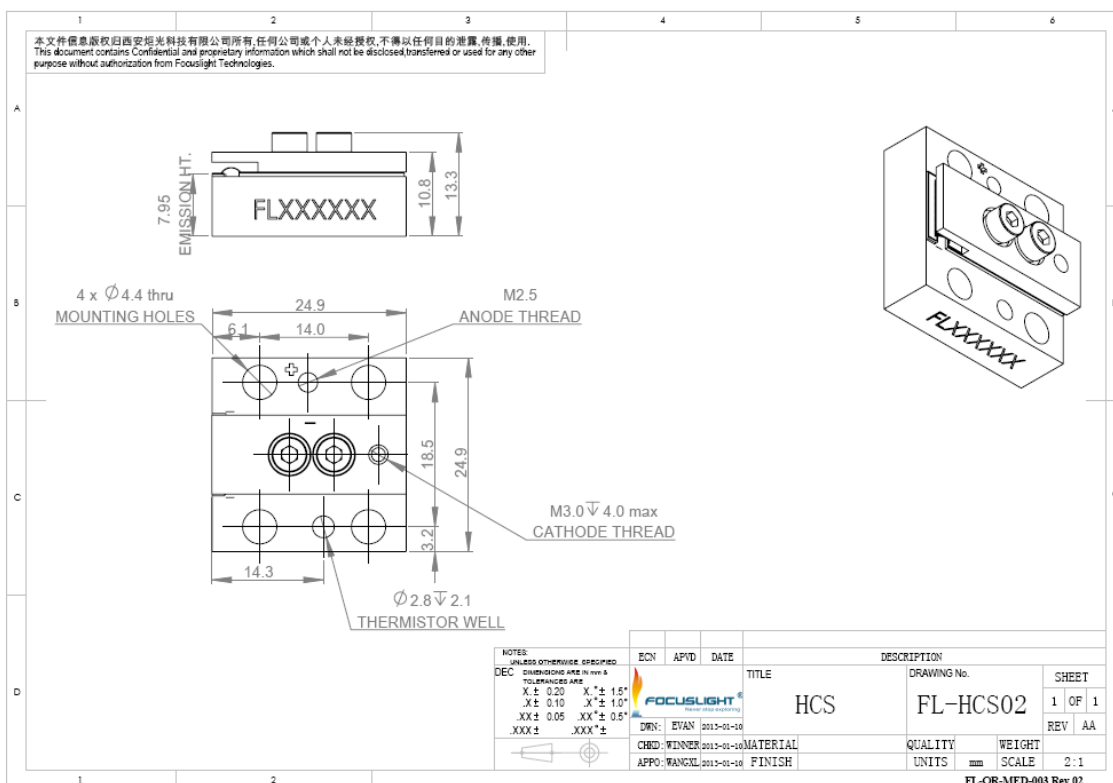
Features

- Long lifetime
- Low smile
- AuSn bonding
- Harsh environment use
- High reliability
- Narrow spectrum
- Wire bonding
- Long storage time

Applications

- Pumping
- Printing
- Scientific research
- Medical
- 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-HCS02-60-808	FL-HCS02-80-940	FL-HCS02-80-976
Optical ³				
Center Wavelength λ	nm	808	940	976 / 980
Wavelength Tolerance	nm	± 3	± 5	± 5
Output Power ²	W	60	80	80
Number of Emitters	#	19	19	19
Emitter Size	um	100	100	100
Fill Factor	%	20	20	20
Spectral Width FWHM	nm	≤ 4	≤ 4.5	≤ 4.5
Spectral Width FW90%E	nm	≤ 6	≤ 8	≤ 8
Fast Axis Divergence(FWHM) ⁵	degree	~ 35	~ 40	~ 40
Slow Axis Divergence (FWHM)	degree	~ 8	~ 8	~ 8
Polarization Mode	-	TE	TE	TE
Wavelength Temp. Coefficient	nm/ $^{\circ}$ C	~ 0.28	~ 0.33	~ 0.34
Electrical Parameters ³				
Operating Current I_{op}	A	≤ 70	≤ 90	≤ 90
Threshold Current I_{th}	A	≤ 12	≤ 10	≤ 10
Operating Voltage V_{op}	V	≤ 2	≤ 2	≤ 2
Slope Efficiency	W/A	≥ 1.0	≥ 1.1	≥ 1.1
Power Conversion Efficiency	%	≥ 45	≥ 55	≥ 55
Thermal Parameters				
Operating Temperature	$^{\circ}$ C	15~35	15~35	15~35
Storage Temperature ⁴	$^{\circ}$ C	-40~55	-40~55	-40~55
Recommended Heatsink Capacity	W	≥ 120	≥ 160	≥ 160

¹Explanation for the name of Module Type: FL(abbreviation of Focuslight) -HCS02(structure code) -60(output power)

-808(center wavelength)

²Reduced lifetime if used above nominal operating conditions.

³Data at 25 $^{\circ}$ 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.



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