
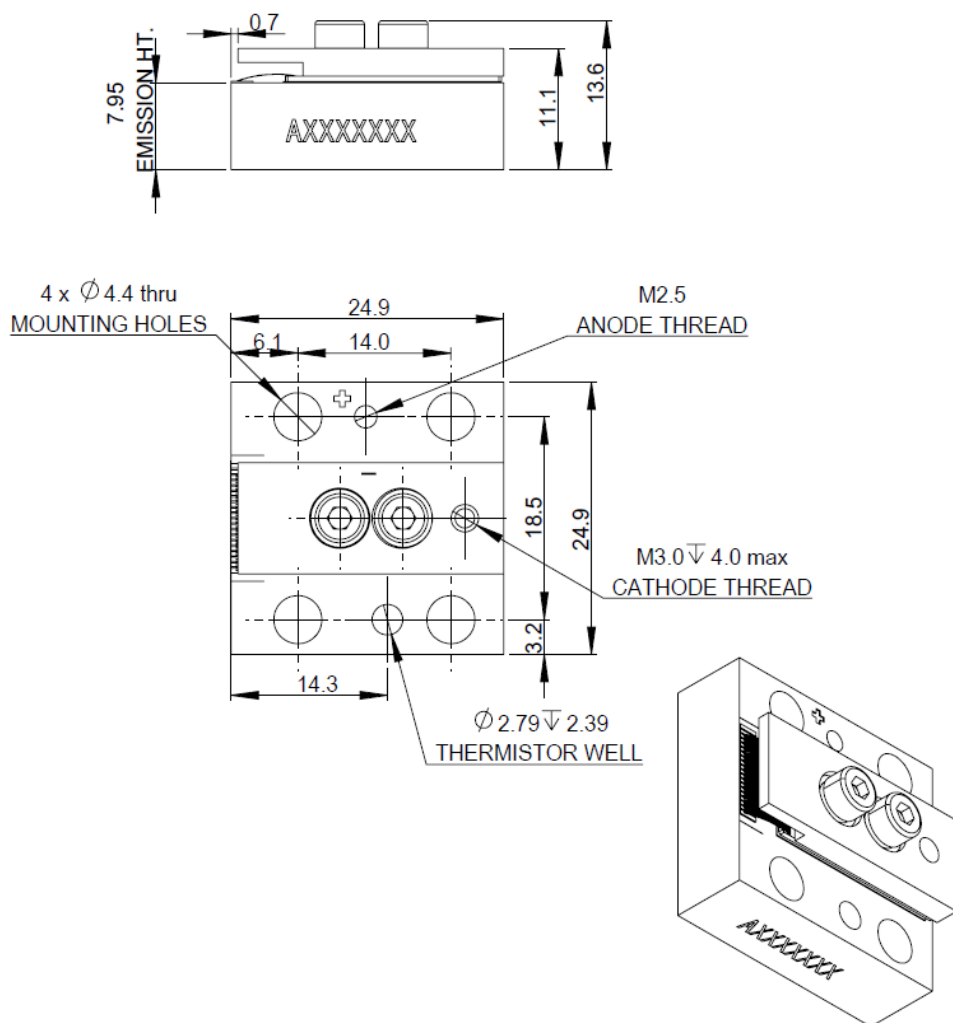


# Conduction Cooled Single Bar Diode Laser (CW)

## LCS

	<p><b>Features</b></p>	<p><b>Applications</b></p>
	<ul style="list-style-type: none"> <li>• IMC bonding</li> <li>• Ultra-low smile</li> <li>• Harsh environment use</li> </ul>	<ul style="list-style-type: none"> <li>• Pumping</li> <li>• Industry</li> <li>• Printing</li> <li>• Medical</li> <li>• Scientific research</li> </ul>

### Product Dimensions (mm)



**Remark:** The structure drawing is for reference only. Please feel free to contact us for any special requirements.

## Product Specifications

Product Code	(Typical Customization)	(Typical Customization)
Part No. <sup>1</sup>	FL-LCS-100-976	FL-LCS-30-1470

Optical Data <sup>2</sup>	Unit	Value	Value
Centroid Wavelength	nm	976	1470
Wavelength Tolerance	nm	± 5	±15
Output Power <sup>3</sup>	W	100	30
Emitter Size	µm	100	100
Fill Factor	%	20	20
Spectral Width FWHM	nm	≤ 4	≤ 9
Spectral Width 90% Energy	nm	≤ 6	≤ 13
Fast Axis Divergence (FWHM)	°	~ 35	~ 35
Slow Axis Divergence (FWHM)	°	~8	~ 7
Polarization Mode	-	TE	TE
Wavelength Temp. Coefficient	nm / °C	~ 0.34	~0.63

Electrical Data <sup>2</sup>			
Operation Current	A	≤ 100	≤ 75
Threshold Current	A	≤ 10	≤ 10
Operating Voltage/Bar	V	≤ 2	≤ 1.3
Slope Efficiency/Bar	W / A	≥ 1.1	≥ 0.45
Power Conversion Efficiency	%	≥ 60	≥ 33

Thermal Data			
Operating Temperature	°C	15 ~ 35	15 ~ 35
Storage Temperature <sup>4</sup>	°C	-40~ 55	-40~ 55
Recommended Heatsink Capacity	W	≥ 130	≥100

Product Code	(Typical Customization)
Part No. <sup>1</sup>	FL-LCS-100-976-Y

Optical Data <sup>2</sup>	Unit	Value
Fast Axis Collimation (FWHM)	°	< 0.5

All other specifications same as above.

<sup>1</sup> Part No. = Brand Code - Series - Power - Centroid Wavelength (- Collimation).

<sup>2</sup> Data at 25°C temperature, unless otherwise stated.

<sup>3</sup> Lifetime reduced if overused under nominal operating condition.

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

