

# Single Emitter Diode Laser (CW) COC11



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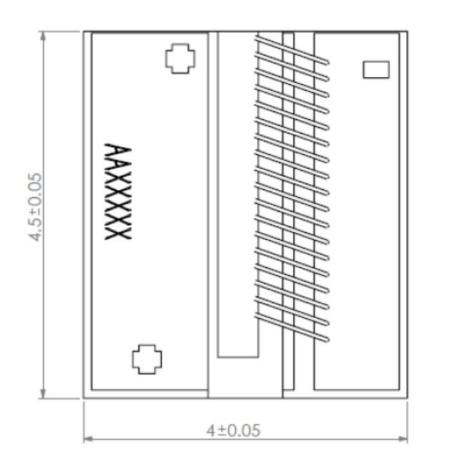
### Features

- AuSn bonding
- Copper-clad plate design
- Harsh environment use

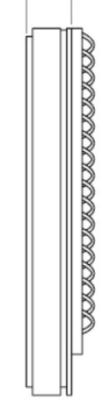
#### Applications

- Pumping
- Medical
- Industry
- Illumination
- Scientific research

#### **Product Dimensions (mm)**







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

All rights reserved. Product specifications and descriptions are subject to change. Product delivered with limited warranty. Please contact our sales representatives for complete details.
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## **Product Specifications**

Product Code		OPD000011	OPD000084	OPD000009	OPD000010
Part No. <sup>1</sup>		FL-COC11-10-808	FL-COC11-12-915	FL-COC11-12-940	FL-COC11-12-976
Optical Data <sup>2</sup>	Unit	Value			
Centroid Wavelength	nm	808	915	940	976
Wavelength Tolerance	nm	± 3	± 5	± 5	± 5
Emitter Width	μm	200	100	100	100
Output Power <sup>3</sup>	W	10	12	12	12
Spectral Width FWHM	nm	≤ 3	≤ 4.2	≤ 4.5	≤ 4.5
Spectral Width 90% Energy	nm	≤ 5	≤ 6	≤ 7	≤ 7
Fast Axis Divergence (FWHM)	o	~ 30	~ 30	~ 30	~ 30
Slow Axis Divergence (FWHM)	o	8	8	8	8
Polarization Mode	-	TE	TE	TE	TE
Wavelength Temp. Coefficient	nm /°C	~ 0.28	~ 0.32	~ 0.33	~ 0.34
Electrical Data <sup>2</sup>					
Operation Current	А	≤ 11.8	≤ 13	≤ 13	≤ 13
Threshold Current	А	≤ 1.8	≤ 0.8	≤ 0.8	≤ 0.8
Operating Voltage	V	≤ 2.2	≤ 2	≤ 2	≤2
Slope Efficiency	W / A	≥ 1	≥1	≥ 1	≥ 1
Power Conversion Efficiency	%	≥ 44	≥ 50	≥ 50	≥ 50
Thermal Data					
Operating Temperature	°C	15 ~ 30	15 ~ 30	15 ~ 30	15 ~ 30
Storage Temperature <sup>4</sup>	°C	-40 ~ 55	-40 ~ 55	-40 ~ 55	-40 ~ 55
Recommended Heatsink Capacity	W	≥ 20	≥ 24	≥ 24	≥ 24

<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.



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