

Single Emitter Diode Laser (CW)

FM01



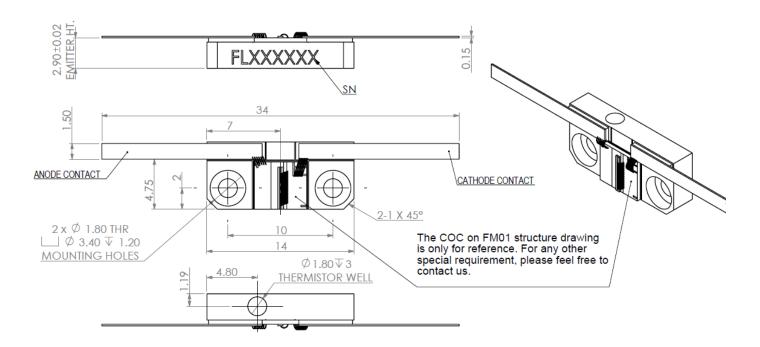
Features

- · AuSn bonding
- · Harsh environment use

Applications

- Pumping
- Medical
- Industry
- Display
- Scientific research

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		OPD000018	OPD000031	OPD000036	OPD000038
Part No. ¹		FL-FM01-10-808	FL-FM01-12-915	FL-FM01-12-940	FL-FM01-12-976
Optical Data ²	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 ³	W	10	12	12	12
Spectral Width FWHM	nm	≤ 3	≤ 4.2	≤ 4.5	≤ 4.5
Spectral Width 90% Energy	nm	≤ 5	≤ 6	≤ 6.5	≤ 7
Fast Axis Divergence (FWHM)	0	~ 30	~ 30	~ 30	~ 30
Slow Axis Divergence (FWHM)	0	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 ²					
Operation Current	А	≤ 11.8	≤ 13.8	≤ 13.8	≤ 13.8
Threshold Current	Α	≤ 1.8	≤ 0.5	≤ 0.9	≤ 0.8
Operating Voltage	V	≤ 2.2	≤ 2	≤ 2	≤ 2
Slope Efficiency	W/A	≥ 0.9	≥ 0.95	≥ 0.95	≥ 0.95
Power Conversion Efficiency	%	≥ 44	≥ 52	≥ 52	≥ 50
Thermal Data					
Operating Temperature	°C	15 ~ 30	15 ~ 30	15 ~ 30	15 ~ 30
Storage Temperature ⁴	°C	-40 ~ 55	-40 ~ 55	-40 ~ 55	-40 ~ 55
Recommended Heatsink Capacity	W	≥ 20	≥ 24	≥ 24	≥ 24
Product Code		OPD000021	OPD000033	OPD000079	OPD000039
Part No. ¹		FL-FM01-10-808-Y	FL-FM01-12-915-Y	FL-FM01-12-940-Y	FL-FM01-12-976-Y
Optical Data ²	Unit	Value			
Fast Axis Divergence (FWHM)	0	~ 8	~ 8	~ 8	~ 8
All other specifications same as abo	ove.				

Part No. = Brand Code - Series - Power - Centroid Wavelength (- Collimation).

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



²Data at 25°C temperature, unless otherwise stated.

 $^{^{\}rm 3}$ Lifetime reduced if overused under nominal operating condition.