LASERMATE GROUP, INC.
The Friend of Lasers

Model No. LD808E3WG13 | LD808E3WJ13 | LD808E3WK13
808nm 3W High Power FP Diode Laser in C-Mount/F-Mount/CoS Package

FEATURES

- 808nm 3W Fabry-Perot cavity semiconductor laser
- Provides beam shaping services, such as fast-axis compression according to customer demands
- Package: C-Mount, F-Mount, CoS

MODEL NUMBER	LD808E3WG13	LD808E3WJ13	LD808E3WK13
PACKAGE	C-Mount	F-Mount	CoS

SPECIFICATIONS (T_C = 20°C)

ITEM	PARAMETER	TYP.	UNIT
OPTICAL PARAMETER	Lasing wavelength	808±5	nm
	Output power	3	W
	Spectral width	≤3	nm
	Emitting area width	100	um
	Temperature coefficient	0.30	nm/°C
	Fast axis divergence	<40	deg
	Slow axis divergence	<10	deg
ELECTRICAL PARAMETER	Slope efficiency	≥1.0	W/A
	Threshold current	≤0.7	A
	Operating current	≤3.3	A
	Operating voltage	≤2.0	V
OTHERS	Package	C-Mount / F-Mount / CoS	-
	Operating temperature	10 to 30	°C
	Storage temperature	-40 to +60	°C
	Welding temperature	≤260	°C

Notes:

1. The above specifications are subject to change without notice.
2. Data in the sheet are based on C-mount package heat sink testing.

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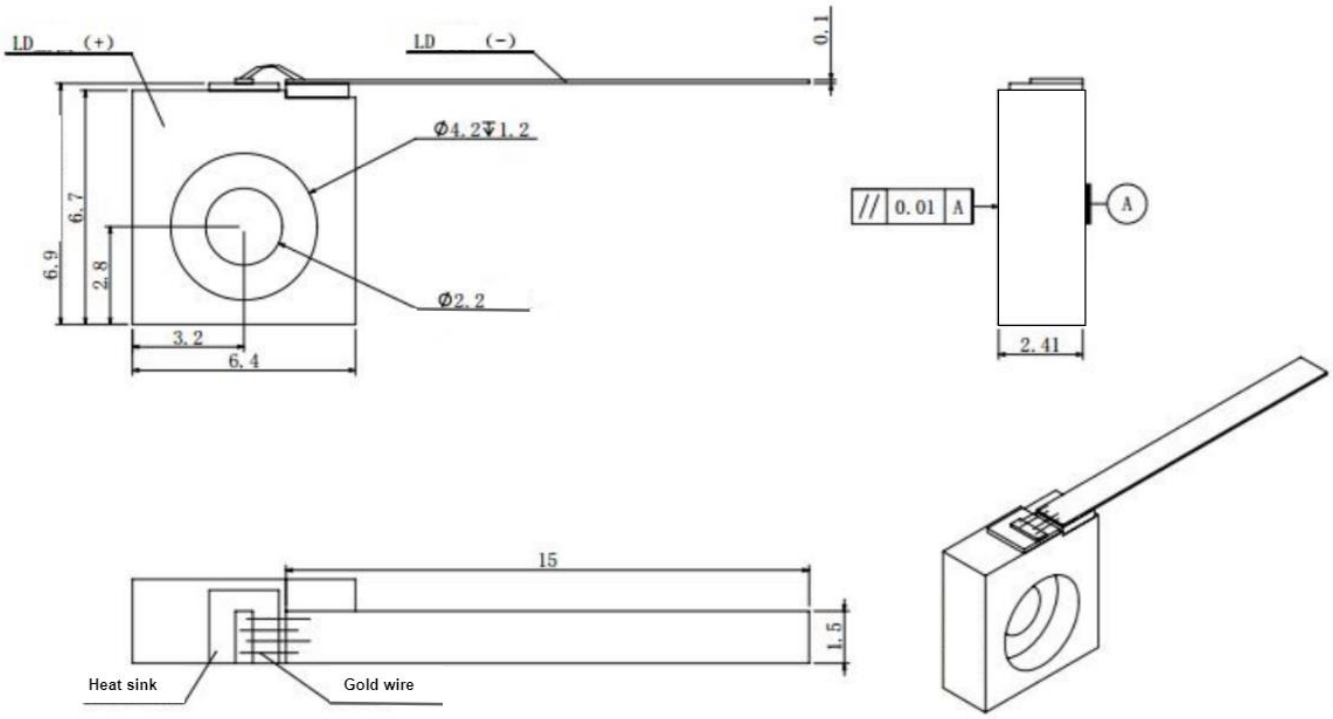
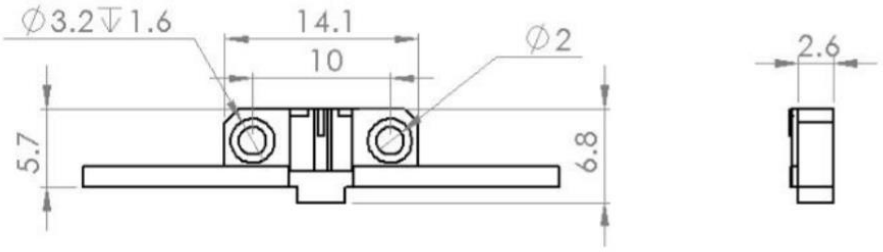
MECHANICAL OUTLINE (unit: mm)

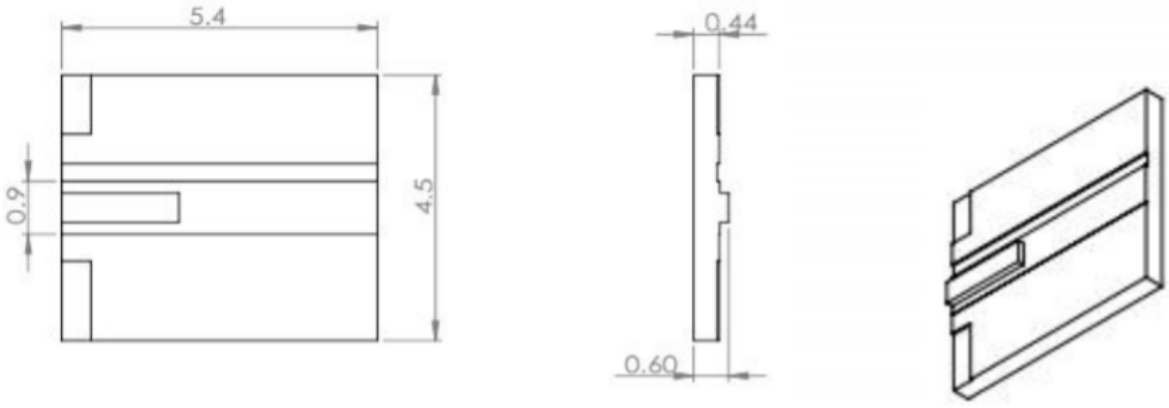
LD808E3WG13 (C-Mount Package)



LD808E3WJ13 (F-Mount Package)

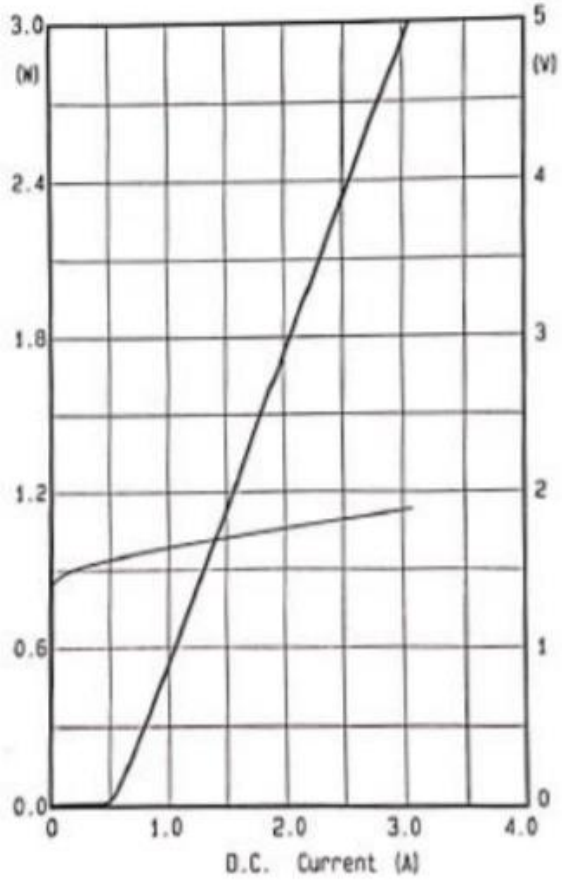


LD808E3WK13 (CoS Package)

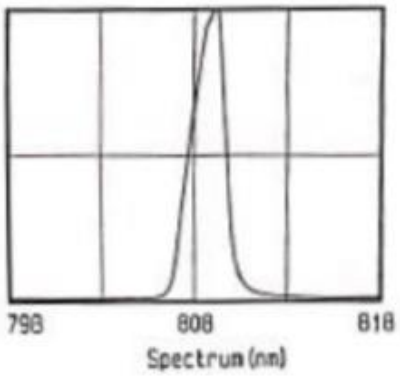


TYPICAL CHARACTERISTICS

P-I-V Curve



Spectral Curve



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PRECAUTIONS

- Do not operate the device above maximum ratings. Doing so may cause unexpected and permanent damage to the device.
- Take precautions to avoid electrostatic discharge and/or momentary power spikes. A change in the characteristics of the laser or premature failure may result.
- Proper heat sinking of the device assures stability and lifetime. Always ensure that maximum operating temperatures are not exceeded.
- Observing visible or invisible laser beams with human eye directly, or indirectly, can cause permanent damage. Use a camera to observe the laser.
- No laser device should be used in any application or situation where life or property is at risk in the event of device failure.
- Specifications are subject to change without notice. Ensure that you have the latest specification by contacting us prior to purchase or use of the product.