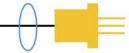


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## The Friend of Lasers



# 980nm 2000mW 30°C Laser Diode in CoS (Chip-on-Submount) Package

Part No. LD980E2WK13

### **FEATURES**

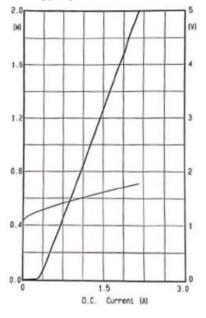
- 980nm 2W Fabry-Perot cavity semiconductor laser
- High power
- Package: CoS (Chip-on-Submount)

# SPECIFICATIONS ( $T_C = 20^{\circ}C$ )

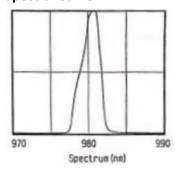
Item	Parameter	Тур.	Unit
Optical Parameter	Lasing wavelength	980±10	nm
	Output power	2	W
	Spectral width	≤4	nm
	Emitting area width	150	um
	Temperature coefficient	0.30	nm/°C
	Fast axis divergence	<30	deg
	Slow axis divergence	<10	deg
Electrical Parameter	Slope efficiency	≥1.0	W/A
	Threshold current	≤0.5	Α
	Operating current	≤2.3	Α
	Operating voltage	≤2.0	V
Others	Package	CoS (Chip-on-Submount)	-
	Operating temperature	15 to 30	°C
	Storage temperature	-40 to +60	°C
	Welding temperature	≤260	°C

#### **TYPICAL CHARACTERISTICS**





#### **Spectral Curve**



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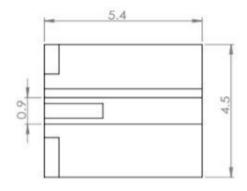


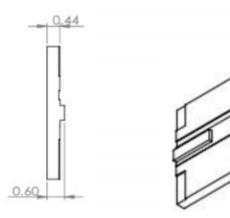
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### **MECHANICAL OUTLINE (unit: mm)**





#### **ADDITIONAL NOTES**

- Data in the sheet are based on C-mount package heat sink testing.
- 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.

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