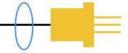


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980nm 2000mW 25°C Laser Diode in C-Mount Package

Part No. LD-980-2WC

FEATURES

- 980nm 2W CW laser diode
- High efficiency Quantum Well structure
- Package: C-Mount

APPLICATIONS

- Solid-state laser pumping
- Medical usage
- Infrared sources for night vision
- Information recognition

SPECIFICATIONS (T_C = 25°C)

Parameter	Тур.	Unit
CW Output Power	2000	mW
Peak Wavelength λ	980±10	nm
Spectral Width Δλ	≤3	nm
Threshold Current	≤0.50	А
Operating Current	≤2.56	А
Operating Voltage	≤2.0	V
Slope Efficiency	≥0.90	W/A
Beam Divergence θ⊥×θ∥	40x10	deg
Wavelength Temperature Coefficient	0.4	nm/°C
Emitting Area	150×1	μm
Series Resistance	≤0.25	Ω
Polarization	TE	
Package Style	C-mount	

ABSOLUTE MAXIMUM RATINGS

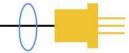
Parameter	Тур.	Unit
Operating Temperature	10 to 25	°C
Storage Temperature	-10 to 60	°C
Reverse Voltage	2.0	V

Tel: (909)718-0999 | Fax: (909)718-0998 | E-mail: info@lasermate.com | URL: https://www.lasermate.com

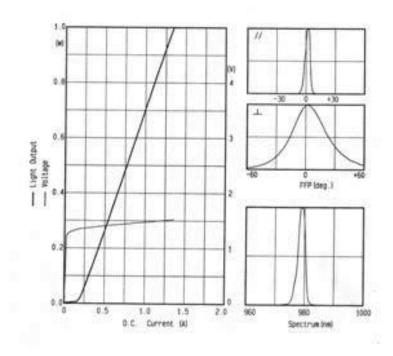


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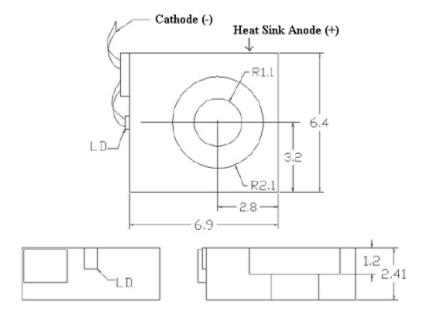
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TYPICAL CHARACTERISTICS



MECHANICAL OUTLINE (unit: mm)



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ADDITIONAL NOTES

- High power laser diodes are high energy laser devices. It is harmful to human body and health. Never look directly into the laser output port.
- High power laser diodes could operate in forward voltage. The reverse current and voltage should not be higher than 25μA and 3 V, respectively.
- Heavy humidity can get dew on the LD then damage the LD.
- The generated heat must be removed in time when the LD is working.
- The high temperature will affect the performance of the products. The lifetime can also be shortened by high temperature.
- The operating current and optical power of laser must not be higher than the given rate current and power. The excessive current would accelerate aging and shorten lifetime, even damage the LD.
- The semiconductor laser diode is a sensitive electronic device. Please observe precaution for handling electrostatic sensitive devices.
- 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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