

INFRA-RED COMPONENTS

HPD Series 4000

830 nm Single Mode Laser Diodes



The Intense-HPD Series 4000 diode lasers are single mode, index guided quantum well structures. The lasers provide high power, low astigmatism, and narrow spectral width with a single spatial mode Gaussian far field.

Standard packages for these lasers include 5.6 mm and 9 mm with monitor photodiode.

Typical Specifications @ 25 °C

HPD Series 8000		4005	4050
Output Power	W	5	50
Operating Current	A	30	80
Operating Voltage	V	2	2.5
Typical Wavelength		830 nm ±10 nm	
Source Size		3 µm	
Spectral Width		1 nm	
Threshold Current		15 mA	
Slope Efficiency		1 W/A	
Series Resistance		2.5 Ω	
Beam Divergence		40x10 deg (FWHM)	
Typical Packages		9 mm, TO56	

Safety

Intense-HPD Aluminum Gallium Arsenide lasers emit infrared radiation. This radiation is invisible to the human eye and safety precautions must be taken to prevent potential eye damage. Do not view or stare at operating lasers. If viewing is required, use a matte surface or suitable viewing screen.

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Disclaimer

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