

INFRA-RED COMPONENTS

HPD Series 1000

Infra-Red CW Lasers for Industrial and Commercial Applications



The HPD Series 1000 diode lasers have high CW output, high brightness, and the excellent reliability needed for today's industrial applications. Selected wavelengths are available within the range of 750 nm to 885 nm. The lasers are broad area multimode with source apertures from 50 μm to 470 μm and spectral widths of typically 2 nm. Series 1000 lasers

exhibit high quantum efficiencies and low thermal impedance for extended lifetime and reliability. Available in all industry standard packages, including optional fiber coupling. Applications include solid-state laser pumping, free space communication, medical therapy, imaging and diagnostics, robotics, and illumination.

Typical Specifications @ 25°C

HPD Series 1000	1005	1010	1015	1020	1040	1050
Output Power (W)	0.5	1	1.5	2	4	5
Source Size (μm)	50	100	100	200	470	470
Operating Current (A)	0.8	1.3	1.8	2.4	5.5	6.5
Threshold Current (A)	0.2	0.3	0.3	0.6	1.5	1.5
Series Resistance (Ω)	0.3	0.25	0.25	0.2	0.15	0.15
Typical Wavelength	808 nm \pm 3 nm					
Other Wavelengths	750-885 nm					
Spectral Width	2 nm					
Slope Efficiency	1 W/A					
Operating Voltage	2V					
Beam Divergence	10 x 40 deg (FWHM)					
Typical Packages	9mm, C, TO3, HHL					

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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.

Disclaimer

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