

INFRA-RED COMPONENTS

HPD Series 1100

Infra-Red CW Lasers for Industrial and Commercial Applications



The HPD Series 1100 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 886 nm to 1064 nm. The lasers are broad area multimode with source apertures from 50 μm to 470 μm and spectral widths of typically 2 nm. Series 1100 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 1100		1105	1110	1120	1140
Output Power	(W)	0.5	1	2	4
Source Size	(μm)	50	100	200	470
Operating Current	(A)	0.8	1.3	2.3	5.5
Threshold Current	(A)	0.2	0.3	0.6	1.5
Series Resistance	(Ω)	0.3	0.25	0.2	0.15
Typical Wavelength		905 nm \pm 10 nm			
Other Wavelengths		886-1064 nm			
Spectral Width		2.5 nm			
Slope Efficiency		1 W/A			
Operating Voltage		2V			
Beam Divergence		40 x 10 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

Intense-HPD reserves the right to make changes at any time as necessary to improve the design and to supply the best product. The information provided is believed to be accurate at the time of printing. No responsibility is assumed for its use or on the infringements on the rights of others.

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