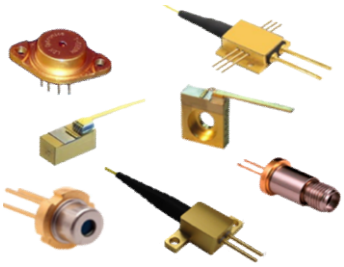
LDX Optronics Inc.

LDX-3105-860

- Wavelength: 860 ±10 nm
- Output Power: Up to 1000mW free space, Up to 800mW fiber coupled
- High output power and dynamic range
- High efficiency
- Custom packaging available
- Custom wavelengths and laser designs are available.



The LDX-3105-860 is a high power, infrared laser diode chip. The InAlGaAs laser design offers low divergence, high brightness, and proven reliability. Applications include solid-state laser pumping, materials processing, and medical applications.

These lasers are available in a variety of industry-standard packages, such as C-mount, B-mount, Q-mount, 9mm window package, and TO-3 window package. Also available in an HHL package incorporating an internal thermoelectric cooler, with optional fiber coupling.
Custom package options are also available.

Device Ratings

Parameter	Min.	Typ.	Max.	Units
Output Power		1000		mW
Operating Current			1000	mA
Operating Temperature		25		°C
Aperture Size		50		um
Polarization		TE		

Device characteristics at 25°C and Rated Power:

Parameter	Min.	Typ.	Max.	Units
Forward Voltage		1.8		V
Wavelength		860 ±10 nm		nm
Spectral Width		3		nm
Divergance - Perpendicular		42		° (FWHM)
Divergance - Parrallel		7		° (FWHM)
Threshold Current		150		mA

All values are typical for a device packaged on C-mount
All device characteristics are subject to change