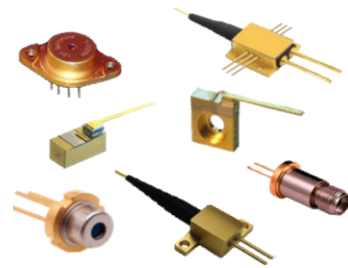


- ⊗ Wavelength: 806 ±3 nm
- ⊗ Output Power: Up to 4000mW free space, Up to 3200mW fiber coupled
- ⊗ High output power and dynamic range
- ⊗ High efficiency
- ⊗ Custom packaging available
- ⊗ Custom wavelengths and laser designs are available.



The LDX-3415-808 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 | | 4000 | | mW |
| Operating Current | | | 3600 | mA |
| Operating Temperature | | 25 | | °C |
| Aperture Size | | 150 | | um |
| Polarization | | TE | | |

Device characteristics at 25°C and Rated Power:

| Parameter | Min. | Typ. | Max. | Units |
|----------------------------|------|-----------|------|----------|
| Forward Voltage | | 2 | | V |
| Wavelength | | 806 ±3 nm | | nm |
| Spectral Width | | 2 | | nm |
| Divergance - Perpendicular | | 36 | | ° (FWHM) |
| Divergance - Parrallel | | 7 | | ° (FWHM) |
| Threshold Current | | 370 | | mA |

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