

808 nm 6 W Laser Diode

- High Power CW Operation- 6 watts
- Wavelength 808 nm standard
- Divergence 10° x 32° FWHM

The LDX-3650-808 laser diode is a high power, high brightness, multimode infrared laser diode. These broad-area, gain-guided lasers offer high efficiency, low threshold current, and excellent reliability.

These devices are available on an open heatsink (C-mount) package, in hermetically sealed TO-3 packages, as well as other package options; please inquire.

Device ratings:

Parameter	Min.	Typ.	Max.	Units
Output Power @ 20 °C		6000	7000	mW
Threshold Current	500	700	1000	mA
Operating Current at Rated Power	5400	5600	6200	mA
Operating Temperature	0	20	30	°C

Device characteristics at 20°C and at 6000 mW output power:

Parameter	Min.	Typ.	Max.	Units
Forward Voltage	1.8	2.0	2.2	Volts
Wavelength	802	806	808	nm
Spectral Width		2	4	nm (FWHM)
Divergence- Parallel		10	12	degrees (FWHM)
Divergence- perpendicular	28	32	36	degrees (FWHM)
Polarization Ratio		>50:1		
Aperture Size*		500 x 1		µm
Slope Efficiency	1.0	1.2	1.3	mW/mA

*Device consists of three separated emitting regions; total aperture 500µm.