

808 nm 7 W Laser Diode

- High Power CW Operation- 7 watts
- Wavelength 808 nm standard
- Divergence 10° x 32° FWHM

The LDX-3765-808 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		7000	7500	mW
Threshold Current	400	700	1400	mA
Operating Current at Rated Power	6000	6500	7800	mA
Operating Temperature	0	20	30	°C

Device characteristics at 20°C and at 7000 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*		650 x 1		µm
Slope Efficiency	1.0	1.2	1.3	mW/mA

*Device consists of two separated emitting regions; total aperture 650µm.