- High Power CW Operation- 300 milliwatts
- Highly Visible to the Eye.
- Wavelength 640 ±3 nm Standard

The LDX-2315-640 laser diode is a high power, multimode, visible red laser diode. These AlGaInP broad-area, gain-guided lasers are produced using MOCVD growth which offers high efficiency, low threshold current, and excellent reliability. The low wavelength of these devices is over five times more visible to the eye than standard 670 nm laser diodes.

These devices are available in a High-Heat-Load package which has an integral thermoelectric cooler and thermistor. They are also available on an open heatsink package (C-mount), as well as other package options; please inquire.

Device ratings:

Parameter	Min.	Typ.	Max.	Units
Output Power @ 15 °C	300		400	mW
Threshold Current	400	600	900	mA
Operating Current at Rated Power	700	1000	1200	mA
Operating Temperature	-20	20	30	•C

Device characteristics at 20°C and at 300 mW output power:

Parameter	Min.	Typ.	Max.	Units
Forward Voltage	1.8	2.1	2.4	Volts
Wavelength	637	640	643	nm
Spectral Width		1	3	nm (FWHM)
Divergence- Parallel		8	12	degrees (FWHM)
Divergence- perpendicular	35	45	50	degrees (FWHM)
Polarization Ratio		>50:1		
Aperture Size		150 x 1		µm
Slope Efficiency	0.6	0.8	1.1	mW/mA

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