

- High Power CW Operation- 1.0 Watt
- High Brightness- 150 μm Aperture
- Wavelength 730 \pm 3 nm Standard

The LDX-3115-730 is a high brightness, high power, multimode laser diode. These broad-area, gain-guided lasers are produced using MOCVD growth. The 730 nm wavelength is well suited for photodynamic therapy, and other medical applications which require a large tissue penetration depth.

These devices are available on a open heatsink package, a variety of hermetically sealed TO-packages, or in a hermetically sealed High-Heat-Load package which has an integral thermoelectric cooler, thermistor, and monitor photodiode. Other package options are available; please inquire.

Device ratings:

Parameter	Min.	Typ.	Max.	Units
Output Power @ 15 °C		1000	1200	mW
Threshold Current	400	700	1000	mA
Operating Current at Rated Power	1400	1700	2100	mA
Operating Temperature	0	15	25	°C

Device characteristics at 15°C and at 1000 mW output power:

Parameter	Min.	Typ.	Max.	Units
Forward Voltage	1.6	1.9	2.2	Volts
Center Wavelength	727	730	733	nm
Spectral Width		1	3	nm (FWHM)
Divergence- Parallel	5	7	9	degrees (FWHM)
Divergence- perpendicular	36	40	44	degrees (FWHM)
Polarization Ratio		>50:1		
Aperture Size		150 x 1		μm
Slope Efficiency	0.80	1.0	1.2	mW/mA