- High Power CW Operation- 800 milliwatts
- High Brightness- 150 µm Aperture
- Wavelength 665 ±5 nm Standard

The LDX-2815-665 laser diode is a high brightness, high power, visible red laser diode. These AlGaInP broad-area, gain-guided lasers are produced using MOCVD growth which offers high efficiency and excellent reliability.

These devices are available in a High-Heat-Load package which has an integral thermoelectric cooler, thermistor, and monitor photodiode. 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 @ 20 °C		800	900	mW
Threshold Current	600	800	1000	mA
Operating Current at Rated Power	1500	1800	2100	mA
Operating Temperature	-20	20	30	•C

Device characteristics at 20°C and at 800 mW output power:

Parameter	Min.	Typ.	Max.	Units
Forward Voltage	1.8	2.2	2.4	Volts
Wavelength	660	665	670	nm
Spectral Width		1	3	nm (FWHM)
Divergence- Parallel		7	9	degrees (FWHM)
Divergence- perpendicular	36	40	44	degrees (FWHM)
Polarization Ratio		>50:1		
Aperture Size		150 x 1		µm
Slope Efficiency	0.75	0.90	1.2	mW/mA

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