

- High Power CW Operation- 1200 milliwatts
- High Brightness- 300  $\mu\text{m}$  Aperture
- Wavelength 665  $\pm 3$  nm Standard

The LDX-3130-665 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.

Because these devices are more sensitive to operating temperature than longer wavelength devices, it is essential that the lasers be operated with adequate cooling. An operating temperature of 5  $^{\circ}\text{C}$  is recommended. The efficiency and lifetime of the devices will be improved with even lower operating temperatures.

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 @ 5 $^{\circ}\text{C}$		1200	1500	mW
Threshold Current	2000	2200	2400	mA
Operating Current at Rated Power	3200	3600	4000	mA
Operating Temperature	-20	5	10	$^{\circ}\text{C}$

Device characteristics at 5 $^{\circ}\text{C}$  and at 1200 mW output power:

Parameter	Min.	Typ.	Max.	Units
Forward Voltage	1.8	2.2	2.4	Volts
Wavelength	662	665	668	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		300 x 1		$\mu\text{m}$
Slope Efficiency	0.80	0.9	1.2	mW/mA