830 nm 2 W Laser Diode

- High Power CW Operation- 2 watts
- High Brightness- 150 µm emitter size
- Wavelength 830±5 nm standard

The LDX-3215-830 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		2000	2200	mW
Threshold Current	200	350	600	mA
Operating Current at Rated Power	2200	2500	2800	mA
Operating Temperature	0	20	40	•C

Device characteristics at 20°C and at 2000 mW output power:

Parameter	Min.	Typ.	Max.	Units
Forward Voltage	1.8	1.9	2.1	Volts
Wavelength	825	830	835	nm
Spectral Width		2	4	nm (FWHM)
Divergence- Parallel		7	10	degrees (FWHM)
Divergence- perpendicular	36	40	44	degrees (FWHM)
Polarization Ratio		>50:1		
Aperture Size		150 x 1		µm
Slope Efficiency	0.8	0.9	1.1	mW/mA

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