

- High Power CW Operation- 1000 milliwatts
- High Brightness- 60 μm
- Wavelength 830 ± 5 nm Standard

The LDX-3106-830 laser diode is a high power, multimode, infrared laser diode. These InAlGaAs broad-area, gain-guided lasers are produced using MOCVD growth which offers high efficiency, low threshold current, and excellent reliability.

These devices are available on an open heatsink (C-mount) package. Other package options are available, including TO-3, 9.0mm, and HHL; please inquire.

Device ratings:

Parameter	Min.	Typ.	Max.	Units
Output Power @ 20 °C		1000		mW
Threshold Current	150	225	300	mA
Operating Current at Rated Power	1100	1400	1600	mA
Operating Temperature	0	20	40	°C

Device characteristics at 20°C and at 1000 mW output power:

Parameter	Min.	Typ.	Max.	Units
Forward Voltage	1.7	1.9	2.1	Volts
Wavelength	825	830	835	nm
Spectral Width		2	4	nm (FWHM)
Divergence- Parallel		7	9	degrees (FWHM)
Divergence- perpendicular	36	40	44	degrees (FWHM)
Polarization Ratio		>50:1		
Aperture Size		60 x 1		μm
Slope Efficiency	0.80	0.90	1.1	mW/mA