1065 nm 1.5 W Laser Diode

High Power CW Operation 1.5 watts
High Brightness-150 μm emitter size.
Wavelength 1065 ± 10 nm standard

The LDX-3215-1065 laser diode is a high power, multimode, infrared laser diode. These InGaAs 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 package, in hermetically sealed TO-18 and TO-3 packages, as well as other package options; please inguire.

Device Ratings:

Parameter	Minimum	Typical	Maximum	Units
Output Power@20°C		1500	2000	mW
Threshold Current	300	500	700	mA
Operating Current at Rated Power	2100	2400	2700	mA
Operating Temperature	0	20	50	°C

Device characteristics at 20°C and at 1500 mW output power:

Parameter	Minimum	Typical	Maximum	Units
Forward Voltage	1.8	2.0	2.2	Volts
Wavelength	1055	1065	1075	nm
Spectral Width		3	7	nm (FWHM)
Divergence-Parallel		7	9	degrees (FWHM)
Divergence-Perpendicular	32	38	42	degrees (FWHM)
Polarization Ratio		>50:1		
Aperture Size		150x1		μm
Slope Efficiency	0.6	0.8	1.0	mW/mA