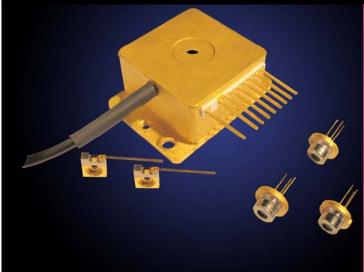


MTS - LDI 4 Olsen Avenue Edison, NJ 08820 USA Voice: (732) 549-9001 Fax: (732) 549-1559 **Laser Diode Incorporated**

Internet: www.laserdiode.com Email: sales@laserdiode.com

High Power CW Laser Diodes



0.5 - 7 Watts **High Efficiency Devices Multiple Package Options** High reliability/Long Life **Applications:**

- Diode based medical systems
- Diode pumped solid state lasers
- Analytical equipment
- Illuminators
- Reprographics
- Laser initiated ordnance

Laser Diode Inc's series of High Power CW products is offered with an output range from 0.5 Watts to 7.0 Watts. These devices have a standard wavelength of 805nm +/- 5nm with a spectral width of 2.5 nm FWHM.

Specifications and Limits @ 25°C							
Common Characteristics	Unit	Min	Тур	Max			
Peak Wavelength	nm		805				
Peak Wavelength Tolerance	nm		+/-5				
Spectral Width (50% Points)	nm		2.5				
Rise/Fall Times	ns		1.0				
Far Field Beam Divergence	deg		12 x 40				
Efficiency at I _f	%		40				
Operating Temperature	°C	-20		+30			
Storage Temperature *Note: Other wavelength tolerances are available	°C	-40		+85			

Single Diode Lasers: Laser Characteristics

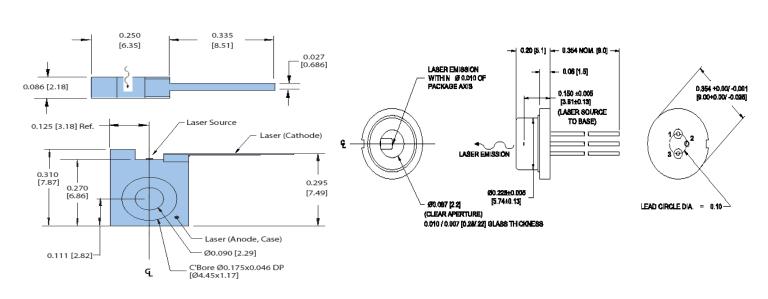
Laser Characteristics

	Power (watts)	Source Size (µm)	Typical Ith (amps)	Max Current (amps)	Typical V _f (volts)
CW 0500 Series	0.5	50	0.27	0.75	2.0
CW 1000 Series	1.0	100	0.47	1.5	2.0
CW 2000 Series	2.0	200	0.82	3.0	2.0
CW 5000 Series	5.0	460	1.8	6.5	2.0
CW 7000 Series	7.0	460	1.8	7.7	2.0

Package Drawings

C-Mount Package

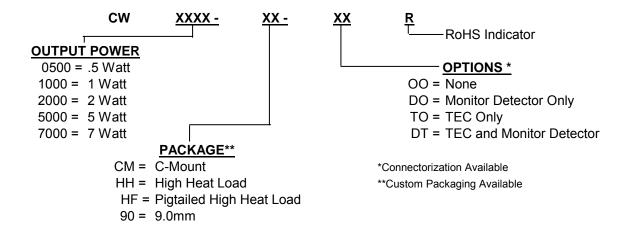
9mm Package



Other package options available.

Ordering Information

Products can be ordered directly from Laser Diode Incorporated or its representatives. When ordering, refer to the information below. For a complete listing of representatives, visit our website at www.laserdiode.com



NOTE: Not all options are available for all packages. Please contact your Sales Representative.

Safety:

Caution: Laser light emitted from any diode laser may be harmful to the human eye. Avoid looking directly into the diode laser aperture when the device is in operation.

Class 4 laser

ESD Caution:

Handle diode lasers with extreme care to prevent electrostatic discharge. Follow ESD precautions When handling devices.

Warranty:

Please refer to your product purchase agreement for complete details or check with your Laser Diode sales representative.

Notice:

Laser Diode Inc. reserves the right to make changes to the products or information contained herein without notice. Liability is assumed as a result of their use or application.