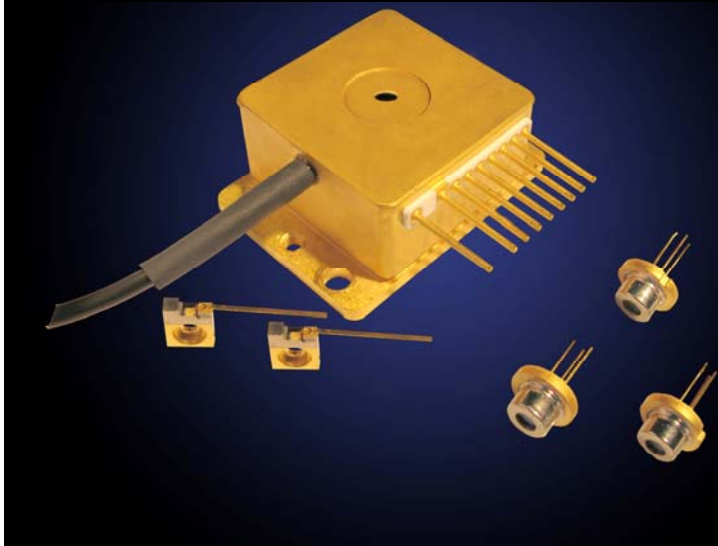


High Power CW Laser Diodes



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	Typ	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	°C	-40		+85

*Note: Other wavelength tolerances are available

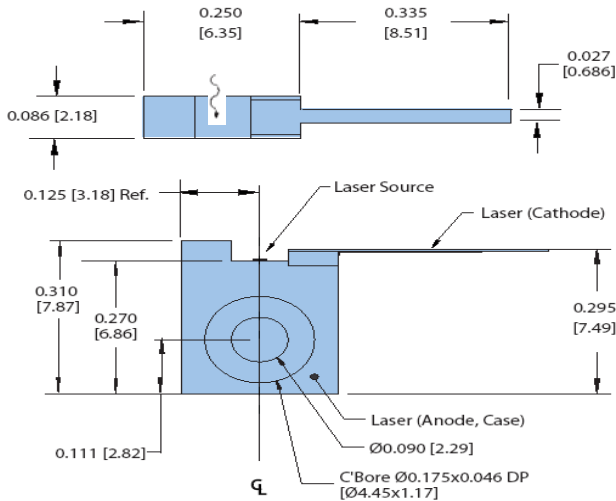
Single Diode Lasers: Laser Characteristics

Laser Characteristics

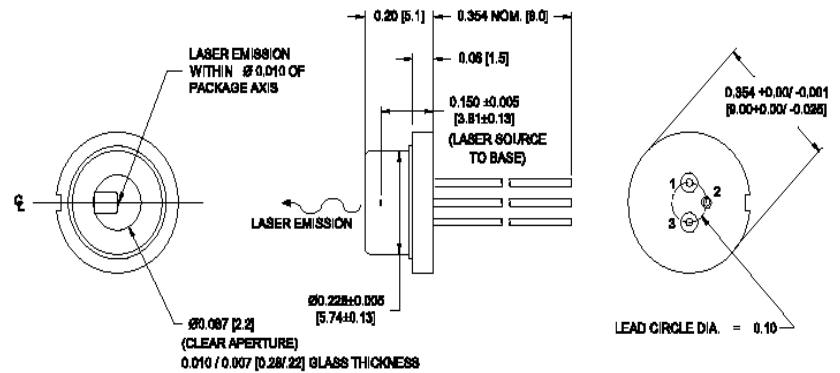
	Power (watts)	Source Size (μm)	Typical I _{th} (amps)	Max Current (amps)	Typical V _f (volts)
CW 0500 Series	0.5	50	0.27	0.75	2.0
CW 1000 Series	1.0	100	0.47	1.5	2.0
CW 2000 Series	2.0	200	0.82	3.0	2.0
CW 5000 Series	5.0	460	1.8	6.5	2.0
CW 7000 Series	7.0	460	1.8	7.7	2.0

Package Drawings

C-Mount Package



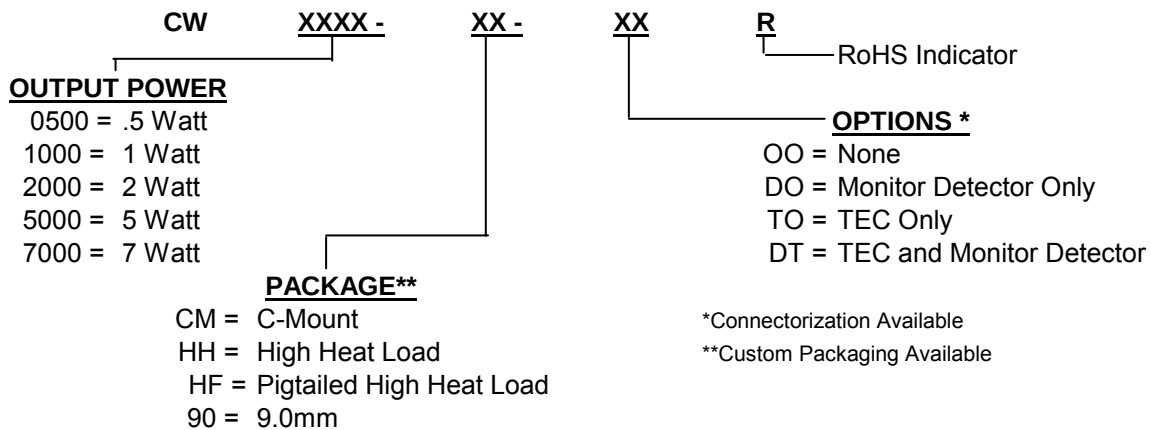
9mm Package



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.