



**MAXIMUM RATING**

Operating Current	$I_{op}$	12A
Reverse Voltage	$V_{RVS}$	2.5V
Case Temperature	$T_{HS}$	5°C / 70°C
Storage Temperature	$T_{STG}$	-30°C / 80°C
Lead Soldering Temperature, 15 s max	$T_{sold}$	300°C
Relative Humidity, none-condensing, ambient <45°C	$R_H$	85%
Fiber Bend Radius		30 mm

**APPLICATIONS:**

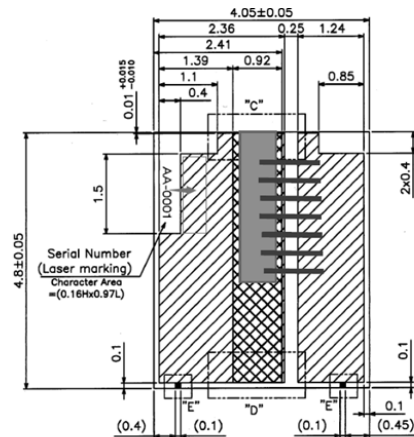
- Eye Safe range finding
- Surveying equipment
- Target designation
- Laser Radar
- Medical applications
- Direct Pumping
- Marking and Printing Applications

**PACKAGE & CHIP CUSTOMIZATION:**

- FAC and SAC Collimation for selected packages
- Free space or fiber output as per package design
- Back Power monitor available for some packages
- Active cooling with temperature monitoring available
- Custom active laser stripe width and wavelength
- Wavelength stabilization
- Various cooling options are available

**Notes on reliability and overdrive**

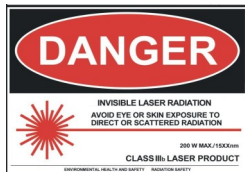
These devices have proven MTF beyond 1000 hours while being operated continuously at designed operating conditions. These devices may be substantially overdriven in short pulse operations. However, it is important to respect maximum drive current and maximum average power output. Average life time overdrive conditions have not been verified, although should be acceptable for applications where the device operation time is limited (range finder, target identifier, etc). The devices must be adequately cooled, specifically in applications where a device operates continuously or in long pulses. High temperature operation and overheating of the devices may significantly reduce performance and MTF.



**Note:** For other custom solutions, not listed in this data sheet, contact Applied Optronics directly.

**Other options available :**

- Single laser or Multi-laser custom assemblies
- Laser package design and fabrication with Customer specified package dimensions and footprint



**Safety:**  
 Caution: Laser light emitted from any diode lasers may be harmful to the human eye. Avoid looking directly into the diode laser aperture while operating the device.  
**Class III(b) laser**

**ESD Caution:**  
 Handle diode lasers with extreme care in order to prevent electrostatic discharge. Please follow all ESD precautions while handling devices.



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