OSI LaserDiode, Inc.
An OSI Systems Company

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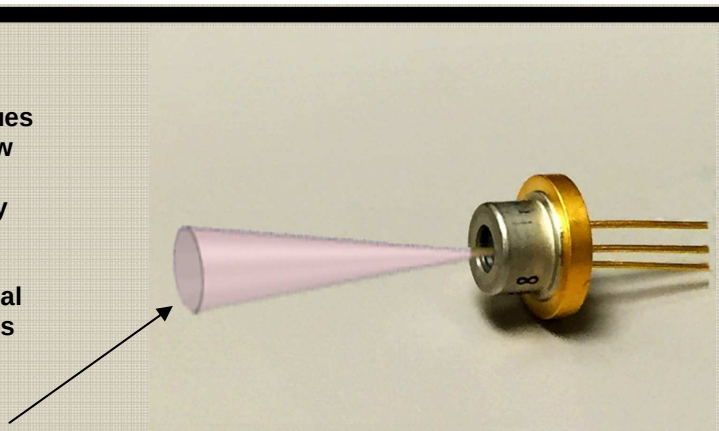
**ISO 9001:2015 Certified**

# CVN 63-90ECL

## 905nm Pulsed Laser Diode with Integrated Micro Lens

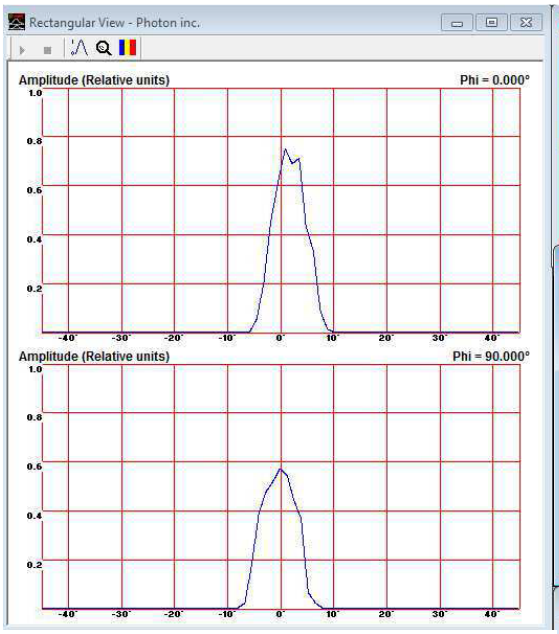
**The 905nm pulsed laser offers a far field beam pattern with equivalent divergence values for both the Fast (Perpendicular) and the Slow (Parallel) Axes of emission. The adjusted Far Field pattern offers higher coupling efficiency into standard spherical lens systems.**
**The laser/lens is hermetically sealed in a 9mm package that offers robust environmental survival capability for demanding applications such as field deployed range finders.**
**This product is RoHS compliant.**



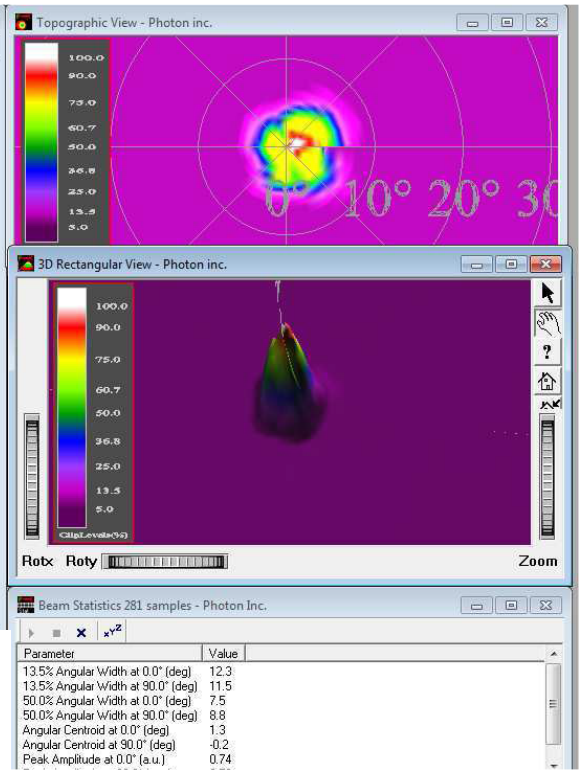
Beam Divergence Equivalent in both Axes

| Parameters | Symbol | Min. | Typ. | Max. | Units |
|---|---|---|---|---|---|
| Wavelength | λ | 893 | 903 | 913 | nm |
| Spectral Width FWHM | Δλ | | 8 | | nm |
| Temp Coeff. of Wavelength | Δλ/ ΔT | | 0.24 | | nm / $^{o}$C |
| Peak Power | $P_o$ | 75 | 87 | | W |
| Pulse Width | PW | | 100 | | nS |
| Duty Factor | DF | | 0.1 | | % |
| Drive Current | - | | 30 | | A |
| Beam Divergence (FWHM) | - | | 8 x 8 | | Deg. |
| Storage Temperature | $T_s$ | -40 | | +85 | °C |
| Operating Temperature | $T_o$ | | 25 | | °C |

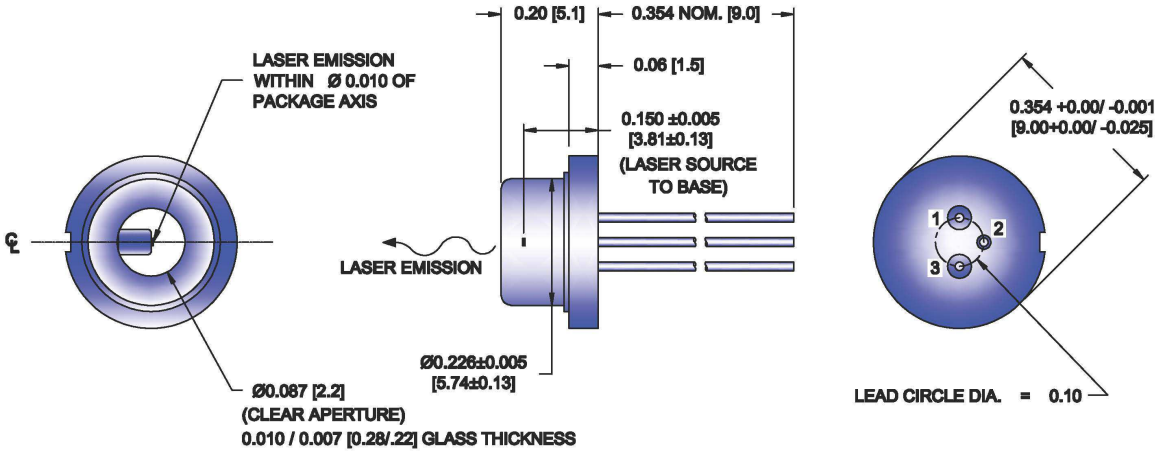
## Typical Far Field Divergence Profile




## Typical 3D Beam Divergence




## 9 mm Package




| PINOUT | | |
|---|---|---|
| **PIN 1** | **PIN 2 (CASE)** | **PIN 3** |
| Laser Anode (+) | Laser Cathode (-) | No Connection |

**Safety:**
Caution: Laser light emitted from any diode laser may be harmful to the human eye.Avoid looking directly intothe diode laser aperture when the device is in operation.
**Class 3B 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 Inc. sales representative.

**Notice:**
LDI reserves the right to make changes to the products or information contained herein without notice. No Liability is assumed as a result of their use or application.