World-Class Opto-Electronic Components

OSI Laser Diode, Inc.

Telecom Products

- **OTDR Lasers @ 850, 1310, 1550, 1625 & 1650nm**
  - High peak optical powers
  - Excellent wavelength stability over temperature
  - High reliability laser welded construction
  - Lead free & RoHS compliant
  - Fully Hermetic Packaging

- **OTDR Combiner & TriBiner**
  - Combines 2 or 3 wavelengths
  - Single output fiber
  - Red laser available
  - Ideal for handheld OTDR

- **DFB Lasers**
  - 1310, 1550nm
  - Optically isolated
  - PM fiber option

- **PINFET Optical Receiver Modules**
  - High sensitivity
  - Wide dynamic range
  - Hermetic package
  - 850-1650nm operation

- **FP Lasers & LEDs @ 850nm to 1650nm**
  - Edge emitting LED @ 1300nm
  - High stability fiber coupling
  - TEC & back facet monitor options

- **Airpak Tx and Rx Modules**
  - SONET OC1 & OC3 transmitters
  - SONET OC1, OC3 & OC12 receivers
  - High loss budget links

High Power Products

- **1550nm Pulsed Laser Diode w/Integrated Micro Lens**
  - Beam Divergence Equivalent in both Axis
  - Robust environmental survival capacity
  - Higher coupling efficiency into standard spherical systems

- **TCW RGB TriBiner Visible Laser**
  - Wavelengths: 450nm, 520nm, 638 nm
  - Additional fiber pigtail options available

- **1550nm Pulsed Laser Diodes (Eye Safe)**
  - Single & Multi-Junction versions
  - Stacked Multi-Junction versions up to 100 Watts

- **850nm & 905nm Pulsed Laser Diodes**
  - Single junction versions up to 140 Watts
  - Multi-junction stacked lasers up to 375 Watts
  - High efficiency & low drive currents
  - Stable output from -40°C to +85°C

InGaAs APD Devices

- 75um and 200um active areas
- Responsivity from 850nm to 1700nm
- Multiple Packaging Options

OSI Laser Diode, Inc.
4 Olsen Ave
Edison, NJ 08820

Peggy Scarillo
Sales Manager
Email: pscarillo@osilaserdiode.com

Phone: 732-549-9001
Fax: 732-906-1559
www.laserdiode.com

LaserDiode, Inc. An OSI Systems Company
**CVL Series Characteristic @ 25°C**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
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<tbody>
<tr>
<td>Peak Wavelength</td>
<td>λ</td>
<td>1530</td>
<td>1550</td>
<td>1570</td>
<td>nm</td>
</tr>
<tr>
<td>Spectral Width P/λMM</td>
<td>Δλ</td>
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<tr>
<td>Temp Coefficient of Wavelength</td>
<td>Δλ/λ</td>
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<td>22</td>
<td>W</td>
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<tr>
<td>Pulse Width</td>
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<td>200</td>
<td>200</td>
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<td>μs</td>
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<tr>
<td>Duty Factor</td>
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<tr>
<td>Duty Cycle</td>
<td>FC</td>
<td>85</td>
<td>85</td>
<td>85</td>
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<tr>
<td>Storage Temperature</td>
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**CVL Series Drive Conditions: 100ns 30 Ams 1kHz @ 25°C**

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**CVL Series Specifications and Limits @ 25°C**

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**High Power Monolithic Stack Pulsed Laser Diodes Peak Power Up to 375W**

**CVN 63-90ECL 905nm Pulsed Laser Diode with Integrated Micro Lens**

**High Power Pulsed Laser Diodes Peak Power Up to 100W**

**CVN 350-CL90 1550nm Pulsed Laser Diode with Integrated Micro Lens**

**Pulsed 850nm Instrument Laser Modules**

**HCW Series: Instrument Laser Modules Pulsed CW Applications**

**SCW 1731F-D40R 1560 nm Pulsed DFB Laser Diode Module for OSA / OTDR Application**

**SCW 1532-500R 1550 nm High Power Pulsed Laser Diode Module for OSA / OTDR Application**

**Medical • Military • Aerospace Telecommunications**

Peggy Scarillo Sales Manager Email: pscarillo@osilaserdiode.com Phone: 732 -549-9001 www.laserdiode.com ISO 9001:2015