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# Coherent® StingRay™ Laser Diode Module 1253669 | 640nm, 10mW

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**Note:** This item requires accessories for use | [Learn More](#)

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General

Coherent®

Manufacturer:

Diode

Type of Laser:

IIIb

Laser Class - CDRH:

|                                                                                                                                                                                                                                      |                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 1253669                                                                                                                                                                                                                              | Model Number:                  |
| Physical & Mechanical Properties                                                                                                                                                                                                     |                                |
| <10                                                                                                                                                                                                                                  | Pointing Stability (μrad/°C):  |
| 95.10                                                                                                                                                                                                                                | Length (mm):                   |
| Optical Properties                                                                                                                                                                                                                   |                                |
| TEM <sub>00</sub>                                                                                                                                                                                                                    | Spatial Mode:                  |
| 640.00                                                                                                                                                                                                                               | Wavelength (nm):               |
| <1.5                                                                                                                                                                                                                                 | Mode Quality, M <sup>2</sup> : |
| ±6                                                                                                                                                                                                                                   | Wavelength Tolerance (nm):     |
| Red                                                                                                                                                                                                                                  | Color:                         |
| Electrical                                                                                                                                                                                                                           |                                |
| 10                                                                                                                                                                                                                                   | Output Power (mW):             |
| Max Analog: 500                                                                                                                                                                                                                      | Modulation Frequency (kHz):    |
| Hardware & Interface Connectivity                                                                                                                                                                                                    |                                |
| Power Supply:<br>Power Supply Required and Sold Separately.<br>USA: <a href="#">#86-878</a><br>Europe: <a href="#">#86-878</a><br>Japan: <a href="#">#86-878</a><br>Korea: <a href="#">#86-878</a><br>China: <a href="#">#86-878</a> |                                |
| Electrical Leads/ Pin Connections:<br>Hirose HR-10P-12S                                                                                                                                                                              |                                |
| Free Space                                                                                                                                                                                                                           | Output Type:                   |
| 5 - 24 DC                                                                                                                                                                                                                            | Input Voltage (V):             |
| Environmental & Durability Factors                                                                                                                                                                                                   |                                |
| -10 to +50                                                                                                                                                                                                                           | Operating Temperature (°C):    |
| -20 to +60                                                                                                                                                                                                                           | Storage Temperature (°C):      |
| Regulatory Compliance                                                                                                                                                                                                                |                                |
| <a href="#">Exempt</a>                                                                                                                                                                                                               | RoHS 2015:                     |
| <a href="#">Contains SVHC(s)</a>                                                                                                                                                                                                     | Reach 224:                     |
| <a href="#">View</a>                                                                                                                                                                                                                 | Certificate of Conformance:    |
| Singapore                                                                                                                                                                                                                            | Country of Origin:             |
| Edmund Optics India Private Limited                                                                                                                                                                                                  | Imported By:                   |

## Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Product Details

For CDRH certified systems, class IIIb lasers require [#86-878](#). These lasers include a Hirose connector and flying lead terminals for compatibility with a variety of power supplies.

- External Focus with up to 100mW Output Power
- Auto Scaling Input Power 5 - 24VDC with Reverse Polarity Protection

- Built-In Microcontroller for Fault Monitor
- [Coherent® StingRay™ Developer's Kit](#) also available

Coherent® StingRay™ and BioRay™ Laser Diode Modules are ideal for a variety of alignment, machine vision, and biomedical applications. They are available in a wide range of output powers, wavelengths, and fan angles. High precision optical components and sophisticated drive electronics provide power and control to your application, reducing signal-to-noise ratios and increasing measurement speed. Coherent® StingRay™ and BioRay™ Laser Diode Modules are designed with a flat top power distribution across the beam profile for consistency in line projection widths.

**Note:** For CDRH certified systems (Class IIIb), [#86-878](#) Laser Controller and additional external voltage source (0.5-5V) with BNC connector is required.