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Coherent® StingRay™ Laser Diode Module 1231491 | 640nm, 5mW

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Note: This item requires accessories for use | Learn More

Product Downloads

General

Manufacturer:	Coherent®
Type of Laser:	Diode
Laser Class - CDRH:	IIIb

Model Number:
1231491

Physical & Mechanical Properties

Pointing Stability (µrad/°C):
<10

Length (mm):
95.10

Optical Properties

Spatial Mode:
TEM_{00}

Wavelength (nm):
640.00

Mode Quality, M^2:
<1.5

Wavelength Tolerance (nm):
±6

Color:
Red

Electrical

Output Power (mW):
5

Modulation Frequency (kHz):
Max Analog: 500

Hardware & Interface Connectivity

Power Supply:
Power Supply Required and Sold Separately:
USA: **#86-878**
Europe: **#86-878**
Japan: **#86-878**
Korea: **#86-878**
China: **#86-878**

Electrical Leads/ Pin Connections:
Hirose HR-10P-12S

Output Type:
Free Space

Input Voltage (V):
5 - 24 DC

Environmental & Durability Factors

Operating Temperature (°C):
-10 to +50

Storage Temperature (°C):
-20 to +60

Regulatory Compliance

RoHS 2015:
Exempt

Reach 224:
Contains SVHC(s)

Certificate of Conformance:
View

Need different specs or modifications?

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.

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