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Coherent® BioRay™ Laser 1264218 | 640nm, 40mW

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⊖ 1 ⊕ €1.125⁰⁰

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

Product Downloads



General

Heat Dissipation of Laser Head:
5 W Max

Manufacturer:
Coherent®

Type of Laser:

Diode

Laser Class - CDRH:

IIIb

Model Number:

1264218

Physical & Mechanical Properties

Weight (g):

<70

Pointing Stability ($\mu\text{rad}/^\circ\text{C}$):

<10

Length (mm):

95.00

Optical Properties

Spatial Mode:

TEM₀₀

Wavelength (nm):

640.00

Mode Quality, M²:

<1.5

Wavelength Tolerance (nm):

±6

Output Beam Angle (mrad):

<3

Beam Waist Position at Exit (mm):

±5

Beam Diameter (mm):

2.6 x 1.4

Beam Divergence (mrad):

0.4 x 0.7

Color:

Red

Electrical

Operating Current (mA):

160 max @ 25°C

Output Power (mW):

40

Power Stability (%):

<2% (8 hours, ±3°C)

Modulation Frequency (kHz):

Max Analog: 500

Rise Time (10% to 90%): <500 nsec

Fall Time (10% to 90%): <500 nsec

ESD Protection:

Level 4

RMS Noise:

20 Hz - 20 MHz <0.5%

20 Hz - 20 MHz peak-to-peak: <1%

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](#)

Output Type:

Free Space

Input Voltage (V):

5 - 24

Threading & Mounting

Mount:

Included

Environmental & Durability Factors

Operating Temperature (°C):

15 to 40

Storage Temperature (°C):

-20 to +60

Shock Rating:

30 G

Regulatory Compliance

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

- 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.