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# Coherent® Diamond Series CO<sub>2</sub> Laser 1165227 | 20W

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Coherent® Diamond C-Series CO<sub>2</sub> Laser

Stock **#37-077** **1 In Stock**

C\$4,949<sup>00</sup>

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| Qty 1+         | C\$4,949.00 each              |
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**Note:** This item requires accessories for use | [Learn More](#)

Product Downloads



**General**

**Cooling Method:**  
Air

**Note:**  
Max. Case Temperature: 60°C

**Laser Class - CDRH:**  
IV

**Model Number:**  
1165227

## Physical & Mechanical Properties

|                    |                         |
|--------------------|-------------------------|
| 357 x 92.5 x 154.5 | <b>Dimensions (mm):</b> |
| 14.5               | <b>Weight (lbs):</b>    |

## Optical Properties

|                 |                                      |
|-----------------|--------------------------------------|
| >100:1          | <b>Polarization:</b>                 |
| 10,600.00       | <b>Wavelength (nm):</b>              |
| <1.2            | <b>Mode Quality, M<sup>2</sup>:</b>  |
| ±0.2            | <b>Beam Diameter Tolerance (mm):</b> |
| 1.8             | <b>Beam Diameter (mm):</b>           |
| 7.5 ±0.5        | <b>Beam Divergence (mrad):</b>       |
| Infrared        | <b>Color:</b>                        |
| 10,550 - 10,630 | <b>Bandwidth (nm):</b>               |

## Electrical

|              |                              |
|--------------|------------------------------|
| ±8           | <b>Power Stability (%):</b>  |
| 20           | <b>Output Power (W):</b>     |
| 0 to 100% DC | <b>Operating Duty Cycle:</b> |
| 0 to 100     | <b>Frequency (kHz):</b>      |

## Hardware & Interface Connectivity

|   |                      |
|---|----------------------|
| Power Supply Required and Sold Separately.<br>USA: <a href="#">#17-206</a><br>Europe: <a href="#">#17-206</a><br>Japan: <a href="#">#17-206</a><br>Korea: <a href="#">#</a><br>China: <a href="#">#17-206</a> | <b>Power Supply:</b> |
| Free Space  | <b>Output Type:</b>  |

## Environmental & Durability Factors

|                           |                                    |
|---------------------------|------------------------------------|
| 5 to 40                   | <b>Operating Temperature (°C):</b> |
| -10 to +60 Non-Condensing | <b>Storage Temperature (°C):</b>   |

## Regulatory Compliance

|                           |                                    |
|---------------------------|------------------------------------|
| <a href="#">Compliant</a> | <b>RoHS 2015:</b>                  |
| <a href="#">View</a>      | <b>Certificate of Conformance:</b> |

## Product Details

- Superior Beam Quality and Power Stability for Improved Process Quality
- Fully Sealed Integrated Package with Built-in RF Power Supply
- Wide Power Range with CW or Pulse Width Modulation Control

Coherent® Diamond C-Series CO<sub>2</sub> Lasers offer reliability with more than 50k operating hours, along with superior beam quality and stability. These lasers are ideal for a wide range of applications from marking and engraving to material processing. Coherent® Diamond C-Series CO<sub>2</sub> Lasers offer a compact option with an integrated RF power supply. Maximum output power ranges from 20 to 40 watts, and can be controlled through pulse width modulation (PWM).

**Note:** Power supply ([#17-206](#)) and Controller ([#37-079](#)) are required for operation.