

# 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

-

1

+

€3.535<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | €3.535,00 each                |
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ⓘ Prices shown are exclusive of VAT/local taxes

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

## Product Downloads



## SPECIFICATIONS

### General

AirCooling Method:

|                                            |                               |       |
|--------------------------------------------|-------------------------------|-------|
| Max. Case Temperature: 60°C                |                               | Note: |
|                                            |                               |       |
| IV                                         | Laser Class - CDRH:           |       |
|                                            |                               |       |
| 1165227                                    | Model Number:                 |       |
|                                            |                               |       |
| Physical & Mechanical Properties           |                               |       |
|                                            |                               |       |
| 357 x 92.5 x 154.5                         | Dimensions (mm):              |       |
|                                            |                               |       |
| 14.5                                       | Weight (lbs):                 |       |
|                                            |                               |       |
| Optical Properties                         |                               |       |
|                                            |                               |       |
| >100:1                                     | Polarization:                 |       |
|                                            |                               |       |
| 10,600.00                                  | Wavelength (nm):              |       |
|                                            |                               |       |
| <1.2                                       | Mode Quality, M²:             |       |
|                                            |                               |       |
| ±0.2                                       | Beam Diameter Tolerance (mm): |       |
|                                            |                               |       |
| 1.8                                        | Beam Diameter (mm):           |       |
|                                            |                               |       |
| 7.5 ±0.5                                   | Beam Divergence (mrad):       |       |
|                                            |                               |       |
| Infrared                                   | Color:                        |       |
|                                            |                               |       |
| 10,550 - 10,630                            | Bandwidth (nm):               |       |
|                                            |                               |       |
| Electrical                                 |                               |       |
|                                            |                               |       |
| ±8                                         | Power Stability (%):          |       |
|                                            |                               |       |
| 20                                         | Output Power (W):             |       |
|                                            |                               |       |
| 0 to 100% DC                               | Operating Duty Cycle:         |       |
|                                            |                               |       |
| 0 to 100                                   | Frequency (kHz):              |       |
|                                            |                               |       |
| Hardware & Interface Connectivity          |                               |       |
|                                            |                               |       |
| Power Supply:                              |                               |       |
| Power Supply Required and Sold Separately. |                               |       |
| USA: <a href="#">#17-206</a>               |                               |       |
| Europe: <a href="#">#17-206</a>            |                               |       |
| Japan: <a href="#">#17-206</a>             |                               |       |
| Korea: <a href="#">#</a>                   |                               |       |
| China: <a href="#">#17-206</a>             |                               |       |
|                                            |                               |       |
| Output Type:                               |                               |       |
| Free Space                                 |                               |       |
|                                            |                               |       |
| Environmental & Durability Factors         |                               |       |
|                                            |                               |       |
| 5 to 40                                    | Operating Temperature (°C):   |       |
|                                            |                               |       |
| -10 to +60 Non-Condensing                  | Storage Temperature (°C):     |       |
|                                            |                               |       |
|                                            |                               |       |
| Regulatory Compliance                      |                               |       |
|                                            |                               |       |
| <a href="#">Compliant</a>                  | RoHS 2015:                    |       |
|                                            |                               |       |
| <a href="#">View</a>                       | Certificate of Conformance:   |       |
|                                            |                               |       |

## 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.