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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 [CONTACT US](#)

- 1 + **\$4,949<sup>00</sup>**

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

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**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. 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>	<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.