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# Coherent® VLM™ Laser Diode 0221-005-00 | 2.3mW 670nm

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Coherent® VLM™ Laser Diode

Stock #53-761 **11 In Stock**

⊖ 1 ⊕ C\$417<sup>.20</sup>

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

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**General**

Index Guided Diode, CW **Type:**

Fully shielded, reverse polarity protected **Drive Circuitry:**

100000.00 **Diode Lifetime (hours):**

Diode **Type of Laser:**

IIIa	<b>Laser Class - CDRH:</b>
Standard 9V Battery: 5	<b>Operating Lifetime (hours):</b>
<b>Physical &amp; Mechanical Properties</b>	
20.00	<b>Weight (g):</b>
+0, -0.0762	<b>Housing Tolerance (mm):</b>
914.4	<b>Length of Leads (mm):</b>
15.00	<b>Pointing Accuracy (arcmin):</b>
0.581	<b>Diameter (inches):</b>
1.776	<b>Length (inches):</b>
<b>Optical Properties</b>	
670.00	<b>Wavelength (nm):</b>
±10	<b>Wavelength Tolerance (nm):</b>
0.2 - 0.3	<b>Wavelength Stability (nm/°C):</b>
<10	<b>Beam Astigmatism (µm):</b>
3.0	<b>Beam Diameter (mm):</b>
0.35	<b>Beam Divergence (mrad):</b>
Red	<b>Color:</b>
<b>Electrical</b>	
2.3 (Maximum)	<b>Output Power (mW):</b>
±4	<b>Output Power Tolerance (%):</b>
ML Spec. Std. 1686B, Class 2	<b>ESD Protection:</b>
55 Typical, 70 Maximum	<b>Current (mA):</b>
<b>Hardware &amp; Interface Connectivity</b>	
<b>Power Supply:</b> Power Supply Required and Sold Separately. USA: <a href="#">#59-099</a> Europe: <a href="#">#35-201</a> Japan: <a href="#">#59-099</a> Korea: <a href="#">#33-771</a> China: <a href="#">#59-099</a>	
5-10V DC	<b>Power Requirement:</b>
red (+), black (-), case (+)	<b>Electrical Leads/ Pin Connections:</b>
Free Space	<b>Output Type:</b>
<b>Environmental &amp; Durability Factors</b>	
-10 to +40	<b>Operating Temperature (°C):</b>
-40 to +80	<b>Storage Temperature (°C):</b>
<b>Regulatory Compliance</b>	
<a href="#">Exempt</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>

## Product Details

- Robust, High Quality Laser Diodes with Small Form Factor
- 635nm and 670nm High Visibility Wavelengths
- Sophisticated Electronic Design for Consistent Beam Properties

Coherent® Visible Laser Diode Modules feature a compact form factor to help users achieve space saving designs in systems that require a collimated light source. The simple design of these laser diodes allows for quick and efficient incorporation into a wide array of optical systems. A sophisticated electronic design aids in producing consistent laser power and beams. Coherent® Visible Laser Diode Modules with advanced AlignLock™ optical assembly technology provide a remarkable beam-pointing alignment of <math><4.3\text{mrad}</math>, making these laser diodes a great choice for precision applications. These robust, compact laser diodes are typically used in machine vision, medical equipment, and many other industrial applications.

**Note:** [Power Supply](#), sold separately, is required for operation.

## Technical Information

