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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 **6 In Stock**

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

### Product Downloads



### General

Index Guided Diode, CW **Type:**

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

100000.00 **Diode Lifetime (hours):**

Diode **Type of Laser:**

IIIa **Laser Class - CDRH:**

**Operating Lifetime (hours):**  
Standard 9V Battery: 5

## Physical & Mechanical Properties

20.00 **Weight (g):**

+0, -0.0762 **Housing Tolerance (mm):**

914.4 **Length of Leads (mm):**

15.00 **Pointing Accuracy (arcmin):**

0.581 **Diameter (inches):**

1.776 **Length (inches):**

## Optical Properties

670.00 **Wavelength (nm):**

±10 **Wavelength Tolerance (nm):**

0.2 - 0.3 **Wavelength Stability (nm/°C):**

<10 **Beam Astigmatism (µm):**

3.0 **Beam Diameter (mm):**

0.35 **Beam Divergence (mrad):**

Red **Color:**

## Electrical

2.3 (Maximum) **Output Power (mW):**

±4 **Output Power Tolerance (%):**

ML Spec. Std. 1686B, Class 2 **ESD Protection:**

55 Typical, 70 Maximum **Current (mA):**

## Hardware & Interface Connectivity

**Power Supply:**  
Power Supply Required and Sold Separately.  
USA: [#59-099](#)  
Europe: [#35-201](#)  
Japan: [#59-099](#)  
Korea: [#33-771](#)  
China: [#59-099](#)

5-10VDC **Power Requirement:**

red (+), black (-), case (+) **Electrical Leads/ Pin Connections:**

Free Space **Output Type:**

## Environmental & Durability Factors

-10 to +40 **Operating Temperature (°C):**

-40 to +80 **Storage Temperature (°C):**

## Regulatory Compliance

[Exempt](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

## 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

