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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** 14 In Stock

-

1

+

S\$417<sup>.20</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | S\$417.20 each                |
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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:                |
|                                                                                                                                                                                                                     |                                    |
| Standard 9V Battery: 5                                                                                                                                                                                              | Operating Lifetime (hours):        |
|                                                                                                                                                                                                                     |                                    |
| 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 Required and Sold Separately.<br>USA: <a href="#">#59-099</a><br>Europe: <a href="#">#35-201</a><br>Japan: <a href="#">#59-099</a><br>Korea: <a href="#">#33-771</a><br>China: <a href="#">#59-099</a> | Power Supply:                      |
|                                                                                                                                                                                                                     |                                    |
| 5-10V DC                                                                                                                                                                                                            | 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                                                                                                                                                                                               |                                    |
| <a href="#">Exempt</a>                                                                                                                                                                                              | RoHS 2015:                         |
|                                                                                                                                                                                                                     |                                    |
| <a href="#">View</a>                                                                                                                                                                                                | 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 <4.3mrad, 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

