

## LDM-0520-C-0004-04-99-000-A

**Key Features:**

High Reliability  
 High Performance  
 Auto Power Controlled PCB  
 Wide Operating Temperature

**Applications:**

Laser Display  
 Surveying Equipment  
 Laser Alignment & Pointing

| Model Number  |          | LDM-0520-C-0004-04-99-000-A  |               |           |                             |
|---|----------|--|---------------|-----------|-----------------------------|
| Optical Parameters                                    |          | Specs  |               |           | Conditions                  |
|   |          | Min  | Typ           | Max       |                             |
| Wavelength  |          | 510nm  | 520nm         | 530nm     | @25 °C                      |
| Output Power  |          | 3.5mW  | 4.2mW         | 4.8mW     | V <sub>CC</sub> =5V, @25 °C |
| Beam Divergence (slow axis 1/e <sup>2</sup> )         |          | -  | 0.5mrad       | 1.0mrad   | V <sub>CC</sub> =5V, @25 °C |
| Beam Alignment Tolerance (Off-axis Angle, half angel) |          | -  | 1.0degree     | 1.5degree | V <sub>CC</sub> =5V, @25 °C |
| Operating Temperature (Case)                          |          | 0 °C   | 25 °C         | 60 °C     |                             |
| Optic Material  |          | Glass  |               |           |                             |
| Electrical Parameters                                 |          |  |               |           |                             |
| Operating Current                                     |          | -  | 70mA          | 200mA     | V <sub>CC</sub> =5V, @25 °C |
| Operating Voltage                                     |          | 4.0 V  | 5.0V          | 5.5V      |                             |
| Mechanical Parameters                                 |          |  |               |           |                             |
| Laser Head<br>Dimensions                              | Length   | -  | 20.0mm        | -         |                             |
|   | Diameter | -  | 7.0mm         | -         |                             |
| Reliability   |          |  |               |           |                             |
| Storage Humidity                                      |          | -  | 5%~85% R.H.   | -         | Non-condensing              |
| Storage Temperature                                   |          | -  | -40 to +85 °C | -         |                             |
| Shock   |          | 1500g, 0.5ms, 2 times/axis, 6 times for 3 axes totally                   |               |           |                             |
| Vibration   |          | 0.02g <sup>2</sup> /Hz, 20~2000Hz, 1hrs./axis, 3 hrs. for 3 axes totally |               |           |                             |
| Expected Lifetime (MTTF)                              |          | 10000  | -             | -         | V <sub>CC</sub> =5V, @25 °C |

## Dimensions and Pin Configuration (Unit: mm)

