**II-VI Suwtech, Inc.**
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# GDL-8-0150-LNH-00-B

**Key Features:**
Mini Size
Low Cost
Low Noise
High Power
High Stability
Auto Power Control Function
High Reliability

**Applications:**
Biotechnology
Laser Display
Laser Printing
Surveying Equipment

| Model Number | | GDL-8-0150-LNH-00-B | | | |
|---|---|---|---|---|---|
| **Optical Parameters** | | **Specs** | | | **Conditions** |
| | | **Min** | **Typ** | **Max** | |
| Wavelength | | 531nm | 532nm | 533nm | |
| Output Power | | 112mW | 150mW | 187mW | |
| Power Stability | | - | +/-1% | +/-5% | APC,2hours @ Constant Temp |
| Operating Temperature (Case) | | Recommended temperature of data sheet | | | Within 20~40°C |
| Residual IR | | - | - | 1% | |
| Beam Diameter (At Output Window) | | | 0.2mm | | |
| Beam Divergence (Full Angle, $1/e^2$) | | - | 7mrad | 10mrad | |
| Roundness | | 80% | 90% | 100% | |
| M-Square | | - | 1.2 | 1.6 | |
| RMS Noise(20Hz~4MHz) | | - | 0.30% | 0.50% | At recommended temperature |
| Polarization Extinction Ratio | | 100:1 | - | - | |
| **Electrical Parameters** | | | | | |
| LD Working Current | | - | 1400mA | 2500mA | 150mW at recommended temperature |
| LD Working Voltage | | 1.9V | 2.2V | 2.5V | |
| Monitor Current | | 480uA | 1050uA | 2000uA | 150mW at recommended temperature |
| GDL Power Consumption | | - | 3.08W | 6.25W | |
| **Mechanical Parameters** | | | | | |
| Laser Head Dimensions | Length | 22.0mm | 22.2mm | 22.4mm | |
| | Diameter | 11.98mm | 12.00 mm | 12.02mm | |
| Beam Alignment Tolerance | Off-axis Angle | | 10mrad | 17.5mrad | |
| | Position(△r) | | 0.2mm | 0.3mm | |
| Laser Weight | | | 5.8g | | |
| **Reliability** | | | | | |
| Storage Humidity | | 5%~85% R.H① | | | |
| Storage Temperature | | -40 to +85 °C | | | |
| Shock | | 1500g, 0.5ms, 6 shocks, 3 axes, 2 shocks/axis | | | |

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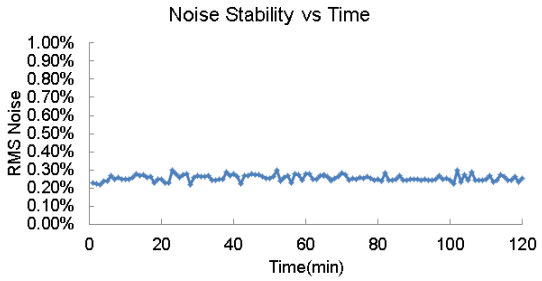
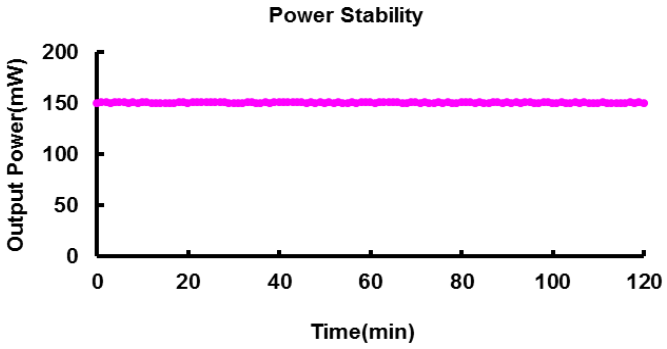
| | | | | |
|---|---|---|---|---|
| Vibration | 20~2000Hz, 0.02g2/Hz, 3 axes, 1hr/axis | | | |
| Expected Lifetime (MTTF) | 10000hrs | - | - | @Rated Power & Room Temp. |

Note: ①Non-condensing

## Typical Output Performance




## Dimensions and Pin Configuration (Unit: mm)