

GLM-555-500-1855

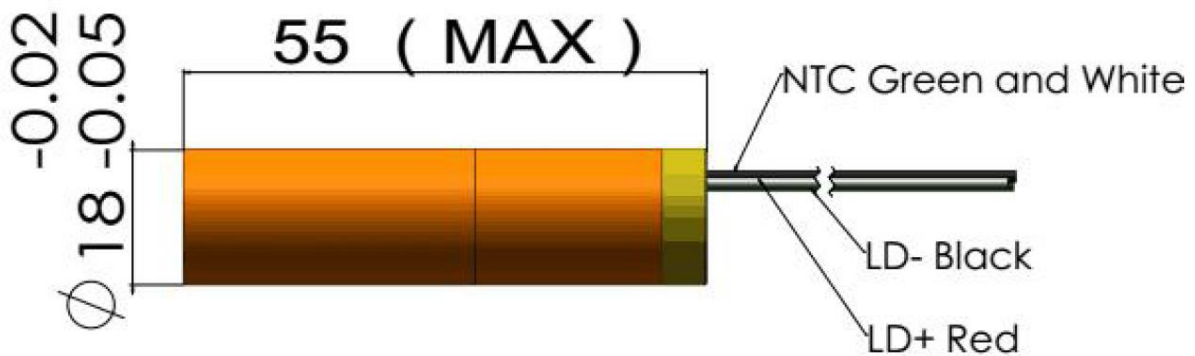
Green Laser Module

Features

- Fast Rise Time
- High Reliability



Dimensions (mm)



| Specifications | | | | | |
|---|-----------------------|-------------------------|------|-------|------------------------------|
| Model Number | | GLM-555-500-1855 | | | |
| Mechanical Specifications | | Specs | | | Conditions |
| | | Min | Typ | Max | |
| Laser Head | Diameter (mm) | 17.95 | - | 17.98 | |
| | Length (mm) | - | - | 55 | |
| | Weight (g) | - | - | 200 | |
| Housing Material | | Brass with gold plating | | | |
| Optical Specifications | | | | | |
| Wavelength (nm) | | 553 | 555 | 557 | |
| Output Power (mW) at 25°C | | 500 | - | - | |
| Power Stability at constant Temperature | | - | ±3% | ±10% | after max. 3 min |
| Output Power Mode | | - | CW | - | |
| Laser Class | | - | 3B | - | |
| Beam Specifications | | | | | |
| Beam Divergence (mrad) | | - | 30 | 40 | full angle, 1/e ² |
| Beam Waist (µm) | | - | 300 | - | |
| Beam Alignment Tolerance | Position (Δr, mm) | - | - | 0.5 | at output Window |
| | Off-axis Angle (mrad) | - | 35 | 60 | full angle |
| Beam Diameter (mm) | | - | 0.5 | - | at output Window |
| Beam Roundness | | - | - | - | |
| Beam Mode Longitudinal | | Multimode | | | |
| Beam Mode Transverse | | TEM _{n1} | | | |
| Polarisation Ratio | | 100:1 | - | - | |
| Residual IR | | - | - | 3% | |
| Electrical Specifications | | | | | |
| PCB Type | | ACC | | | |
| Operating Voltage (V) | | 1.8 | 2.0 | 2.3 | DC |
| Operating Current (mA) | | - | 4500 | 6000 | at 2V |
| Housing Isolation | | No | | | |
| ESD Protection | | No | | | |
| Power Consumption (W) | | - | 3 | 4.6 | at 25°C |

| Electrical Specifications | Specs | | | Conditions |
|----------------------------------|--|------------|------------|-------------------|
| | Min | Typ | Max | |
| Wire Length (mm) | 200±50 | | | Others on request |
| Wire Type | 20AWG for LD wires 28AWG for NTC wires | | | |
| Thermistor Resistance | 10kΩ | | | @25°C |
| Thermistor Constants | A = 2.231e ⁻³ B = 4.694e ⁻⁵ C = 0.884e ⁻⁶ | | | |
| Reliability | | | | |
| Operating Case Temperature (°C) | 24 | 25 | 26 | |
| Rise Time (minutes) | - | 3 | 5 | |
| Storage Temperature (°C) | 0 | - | 40 | |
| Environmental Humidity (RH, %) | 5 | - | 85 | |
| Lifetime (hours) | 5000 | - | - | MTTF at 25 °C |

Example of Beam Spot

