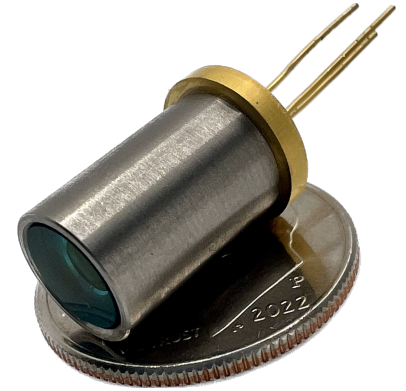


MiniGreen™ Series

Rugged miniature DPSS laser packaged in a standard semiconductor can for integration flexibility, reliability, and high-tolerance to G forces

Features:

- Can size Ø9.0 mm
- Alignment-free optical design
- High-Efficiency



| Optical Specifications ₁ | MiniGreen A50 | MiniGreen A80 | MiniGreen 100 |
|--|-------------------------|---------------|---------------|
| Operating Mode and Wavelength | Continuous Wave @ 532nm | | |
| Output Power (mW) | > 50 | > 80 | > 100 |
| Ambient Temp. Range @ 80% (typ.) | | | |
| Polarization Ratio (typ.) | ~4:1 | | |
| Full Angle (1/e ²) Div. (mrad, typ.) | 8 | | 11 |
| Beam Diam. (1/e ²) @ Window (µm, typ.) | 100 | | 110 |
| Mode Quality (M2, typ.) | 1.4 | | 1.6 |
| Residual 1064nm Leakage (%) | < 0.5 | | |
| Noise (% RMS) | < 1 | | < 2 |
| Electrical Input Requirements | | | |
| Voltage (V) | > 2.2 | | |
| Current (A) | < 0.6 | | < 1.4 |
| Electrical Power (W) | < 1.3 | | < 3.1 |
| Other Specifications | | | |
| CDRH Class | IIIB | | |
| Warm-up Time ₂ (minutes) | < 2 | | |
| Storage Temperature (°C) | -40 to +80 | | |
| Operating Temperature (°C, noncondensing) | ~+10 to +50 | | |

Specifications subject to change without notice.

Other notes:

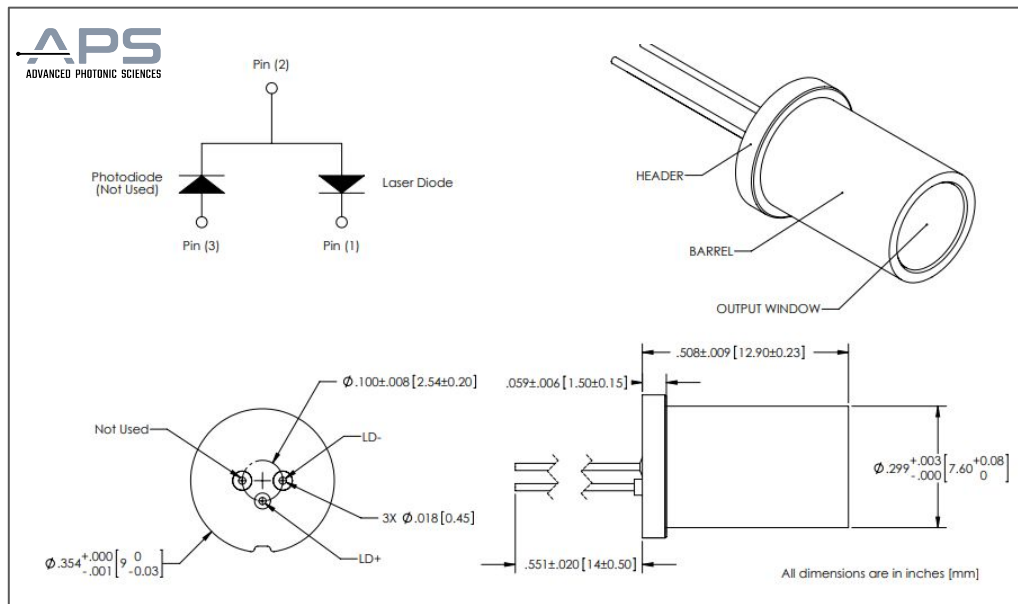
1. All specifications measured at factory-determined laser drive current and temperature settings, chosen within the 25° to 35° C range using a temperature-controlled heat sink. Higher temperature settings available with reduced output power specifications.

2. Dependent on thermal management.

© 2023 Advanced Photonic Sciences



Mechanical Specifications



Notes

APS offers a limited warranty.

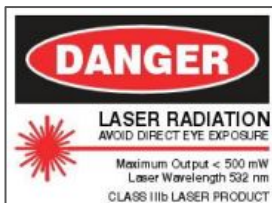
The MiniGreen™ Laser is an electronic device, and, as such, subject to damages due to electrostatic discharge, overpowering, and transients.

Thermal management of the MiniGreen™ Laser must be included in the OEM design. Failures due to inadequate thermal management will void the warranty.

Please refer to APS' Warranty Statement / Return Policy for details. For assistance in any integration issues, please contact our experienced Applications Team at info@apslasers.com

U.S. and international patents pending.

Class IIIB <500 mW



This product is sold as an OEM laser product and does not fully comply with 21 CFR 1020 and IEC 60825-1 : 1993 as applicable.

© 2023 Advanced Photonic Sciences

