

## MicroGreen™ Series

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

### Features:

- Can size Ø5.6 mm
- Alignment-free optical design
- High electro-optic efficiency
- Smallest commercially available green DPSS laser



Optical Specifications <sub>1</sub>	MicroGreen™ 05	MicroGreen™ 15	MicroGreen™ 30	MicroGreen™ 50
Operating Mode	CW			
Output Power (mW)	< 5	> 15	> 30	> 50
Output Center Wavelength (nm)	532			
Ambient Temp. Range @ 80% (°C, typ.)	12			
Polarization Ratio (typ.)	4:1			
Full Angle (1/e <sup>2</sup> ) Div. (mrad, typ.)	7.5			
Beam Diam. (1/e <sup>2</sup> ) @ Output Window (µm, typ.)	100			
Mode Quality (M <sub>2</sub> , typ.)	1.1			
Residual 1064nm Leakage (%)	< 0.5			
Noise (% RMS)	< 0.5			
<b>Electrical Input Requirements</b>				
Voltage (V)	> 2.2			
Current (mA)	< 290			< 600
Electrical Power (W)	< 0.65			< 1.32
<b>Other Specifications</b>				
CDRH Class	IIIA	IIIB		
Warm-up Time <sub>2</sub> (minutes)	< 2			
Storage Temperature (°C)	-40 to +80			
Operating Temperature <sub>3</sub> (°C, noncondensing)	~+10 to +50			
Warranty (Year)	1			

Specifications subject to change without notice.

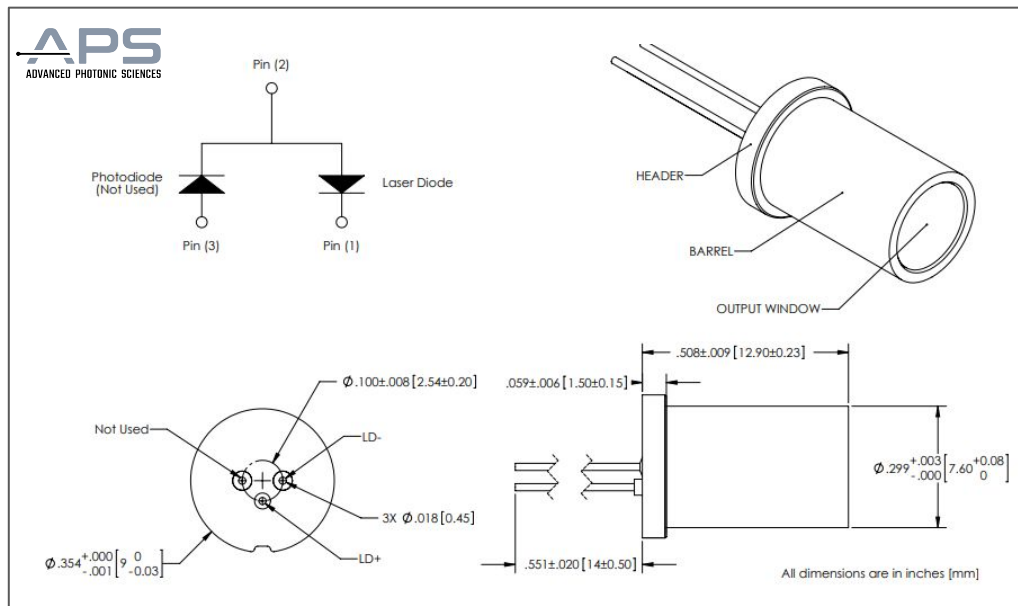
Other notes:

1. All specifications measured at factory-determined laser drive current and temperature settings, chosen within the 20° to 30° C range using a temperature-controlled heat sink. Higher temperature settings available with reduced output power specifications.
2. Dependent on thermal management.
3. At the center of the header between the three pins.

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## Mechanical Specifications



## Notes

APS offers a limited warranty.

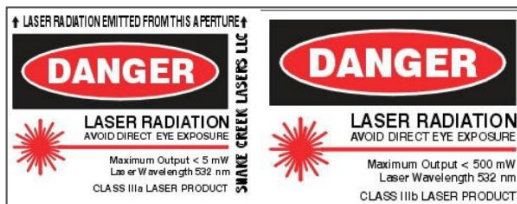
The MicroGreen™ Laser is an electronic device, and, as such, subject to damages due to electrostatic discharge, overpowering, and transients.

Thermal management of the MicroGreen™ 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](mailto:info@apslasers.com)

U.S. and international patents pending.

Class IIIA <5 mW, 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.

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