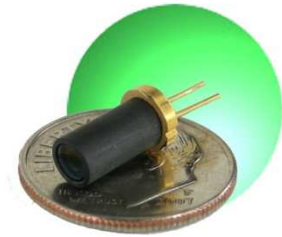


## MicroGreen™ Series

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



MicroGreen™ laser displayed on a dime

### Features:

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

Optical Specifications <sup>1</sup>	MicroGreen™ 05	MicroGreen™ 15	MicroGreen™ 30	MicroGreen™ 50
Operating Mode	CW			
Output Power (mW)	< 5	> 15	> 30	> 50
Output Center Wavelength (nm)	532			
Ambient Temperature Range @ 80% (°C, typ.)	12			
Polarization Ratio (typ.)	4:1			
Full Angle (1/e <sup>2</sup> ) Divergence (mrad, typ.)	7.5			
Beam Diameter (1/e <sup>2</sup> ) at Output Window (µm, typ.)	100			
Mode Quality (M <sup>2</sup> , typ.)	1.1			
Residual 1064nm Leakage (%)	< 0.5			
Noise (% RMS)	< 0.5			

Electrical Input Requirements	MicroGreen™ 05	MicroGreen™ 15	MicroGreen™ 30	MicroGreen™ 50
Voltage (V)	< 2.2			< 2.2
Current (mA)	< 290			< 600
Electrical Power (W)	< 0.65			< 1.32

Other Specifications	MicroGreen™ 05	MicroGreen™ 15	MicroGreen™ 30	MicroGreen™ 50
CDRH Class	IIIA	IIIB	IIIB	IIIB
Warm-Up Time <sup>2</sup> (minutes)	< 2			
Storage Temperature (°C)	- 40 to +80			
Operating Temperature <sup>3</sup> (°C, non-condensing)	~+10 to +50			
Warranty (year)	1			

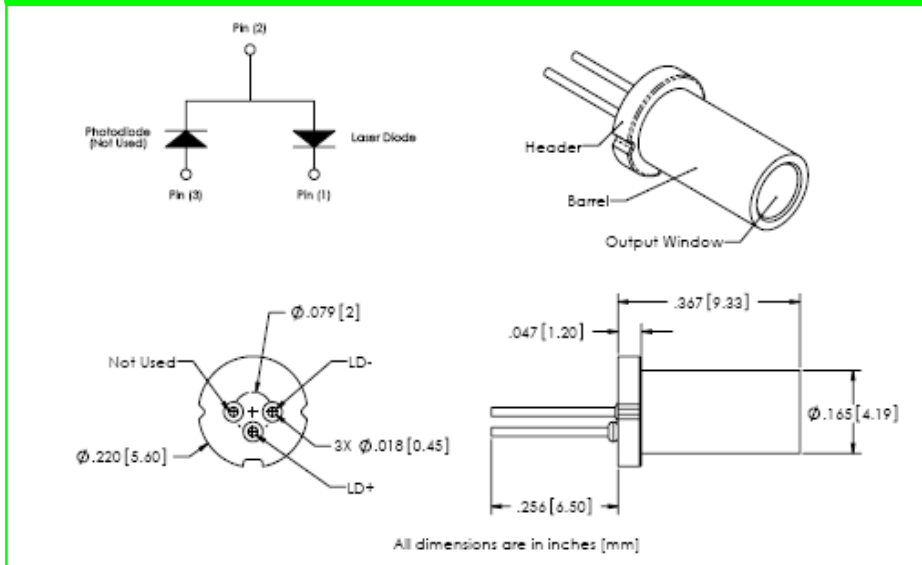
Specifications subject to change without notice. Other notes:

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.

## Mechanical Specifications



## Notes

Snake Creek Lasers offers a limited warranty.

The MicroGreen™ Laser is an electronic device, and, as such, subject to damages due to electro-static 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 Snake Creek Lasers' Warranty Statement / Return Policy for details. For assistance in any integration issues, please contact our experienced Applications Team at [sales@snakecreeklasers.com](mailto:sales@snakecreeklasers.com)

U.S. and international patents pending.

Class IIIA <5mW 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.



RR2 Box 2753  
61 Railroad Ave.  
Hallstead, PA 18822  
Tel.: 570-879-4992  
Fax: 570-879-0912  
[www.snakecreeklasers.com](http://www.snakecreeklasers.com)