

## Advanced Photonic Sciences

### MicroGreen™ XG Series Laser

Miniature green DPSS laser, designed for applications requiring hours of continuous-wave operation per event. Made in USA.



MicroGreen™ XG laser displayed on a quarter

#### Key Features:

- **Small Size**
- **High Quality**
- **Good Stability**
- **Highly Reliable**
- **Constant Current Operation**

Optical Specifications	MicroGreen™ XG-15	MicroGreen™ XG-30
Minimum Output Power (mW)	15	30
Output Center Wavelength (nm)	532 +/- 1	
Recommended Operating Temperature Range (°C)	20 - 30	
2-Hour Power Stability @ Constant Current & Temp. (%)	< +/- 5 <sup>1</sup>	
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	
Ellipticity (%)	90 - 100	
Residual 1064nm Leakage (%)	< 1	

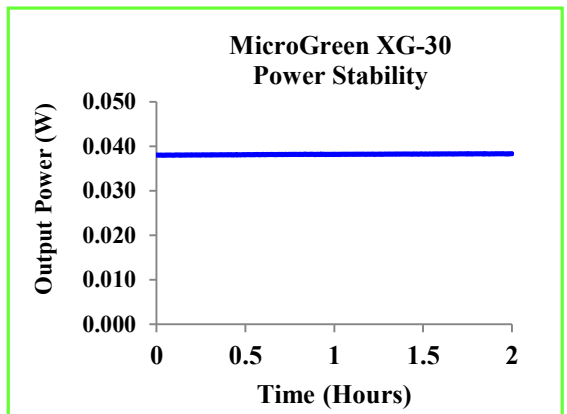
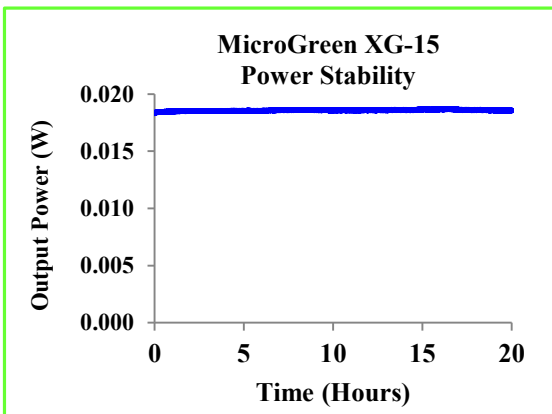
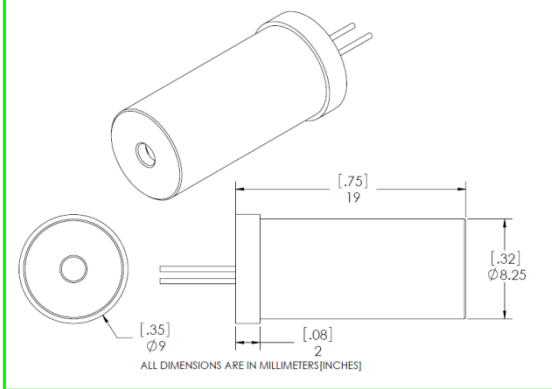
Electrical Input Requirements	
Voltage (V)	< 2.2
Max. Current (mA)	< 385
Max. Electrical Power (W)	< 0.85

Other Specifications	
CDRH Class	IIIB
Storage (°C)	- 40 to + 80
MTBF Lifetime (Expected Hours)	> 5000

Note 1. With TEC-controlled heat sink, stability can be < 0.1%

Note 2. Specifications subject to change without notice.

## Mechanical Specifications and Typical Output Power Stability Plots



### Notes

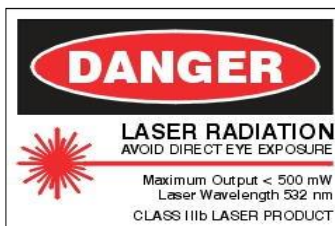
Advanced Photonic Sciences offers a limited warranty.

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 Advanced Photonic Sciences' Warranty Statement / Return Policy for details. For assistance in any integration issues, please contact our experienced Applications Team at [sales@advancedphotonicsciences.com](mailto:sales@advancedphotonicsciences.com)

U.S. and international patents pending.



This item is sold as an OEM laser component and does not fully comply with 21 CFR 1040 and IEC 60825-1 : 1993 as applicable.

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