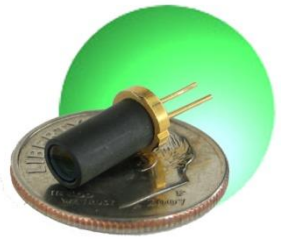
Advanced Photonic Sciences

MicroGreen™ APC Series

Rugged miniature DPSS laser with integrated automatic power control functionality packaged in a standard semiconductor can for integration flexibility and reliability.



MicroGreen™ APC laser displayed on a dime

Features:

- **Convenient standard TO-56 package**
- **Smallest commercially available green DPSS laser with APC functionality**
- **Low power consumption**
- **Wide temperature range**

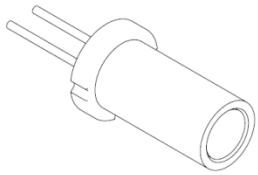
Optical Specifications	MicroGreen™ APC-15 / 4	MicroGreen™ APC-15 / 8	MicroGreen™ APC-50 / 30
Operating Mode	CW		
Output Power (mW)	4	8	30
Output Center Wavelength (nm)	532		
Minimum Operating Temperature Range (°C)	17-33	17-33	15 - 35
Typical Operating Temperature Span (°C)	25	25	30
Output Power Stability Over Temperature Range (%)	±20		±25
Polarization Ratio (typ.)	4:1		
Full Angle (1/e²) Divergence (mrad, typ.)	7.5		
Beam Diameter (1/e²) at Output Window (µm, typ.)	100		
Mode Quality (M^2, typ.)	1.1		1.2
Residual 1064nm Leakage (%)	< 0.5		
PD Photo Current (µA)	30 ~ 90	75 ~ 150	350 ~ 1,000

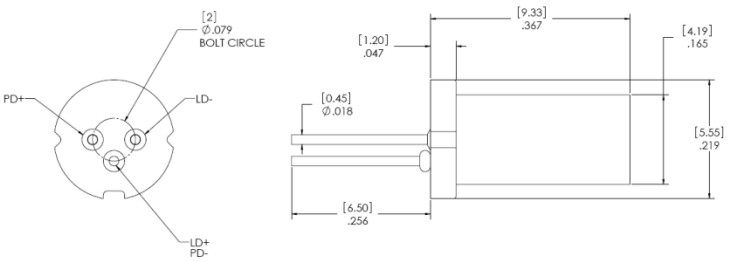
Electrical Input Requirements			
Voltage (V)	< 2.2		
Max. Current (mA)	< 360		
Max. Electrical Power (W)	< 0.8		

Other Specifications	
CDRH Class	IIIB
Storage	- 40° to + 80°
Warranty (year)	1

Specifications subject to change without notice.

Mechanical Specifications





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

U.S. and international patents pending.

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

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