

Advanced Photonic Sciences

MiniGreen[™] Series

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



Features:

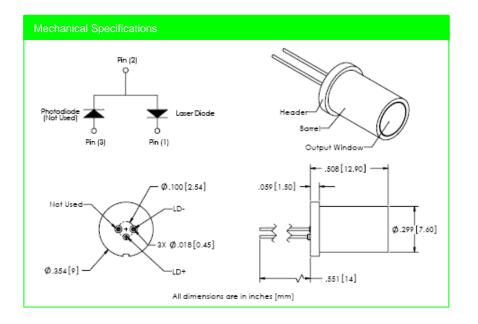
- Can size Ø9.0 mm
- Alignment-free optical design
- High-Efficiency

Optical Specifications ¹	MiniGreen™ A50	MiniGreen™ A70	MiniGreen™ 100	MiniGreen™ 150
Operating Mode and Wavelength	Continuous wave @ 532 nm			
Output Power (mW)	> 50	> 70	> 100	> 150
Ambient Temp. Range @ 80% (typ.)	12°C			
Polarization Ratio (typ.)	~4:1			
Full Angle (1/e²) Div. (mrad, typ.)	8		11	
Beam Diam. (1/e²) @ Window (µm, typ.)	100		110	
Mode Quality (M ² , typ.)	1.4		1.8	
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
Storage Temperature (°C)	-40 to +80
Operating Temperature (°C, non- condensing)	~+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.



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. Advanced Photonic Sciences, LLC 26741 State Road 267, Suite 2 Friendsville, PA 18818 Telephone: 570-553-1120 Fax: 570-553-1139 www.advancedphotonicsciences.com