

MiniGreen™ laser displayed with a dime

MiniGreen™ Series with High Polarization

Rugged miniature DPSS laser packaged in a standard semiconductor can for integration flexibility, reliability, and high-tolerance to G forces with polarizer integrated inside a protective output window

Features:

- Can size Ø9.0 mm
- Alignment-free optical design
- High electro-optic efficiency
- High polarization ratio and fixed polarization angle

Optical Specifications ¹	MiniGreen™ A30P	MiniGreen™ A50P	MiniGreen™ 60P
Operating Mode	CW		
Output Power (mW)	> 30	> 50	> 60
Output Center Wavelength (nm)	532		
Polarization Ratio	>100:1		
Full Angle (1/e ²) Divergence (mrad, typical)	8		11
Beam Diam (1/e ²) at Output Window (µm, typ.)	110		120
Mode Quality (M2, typical)	1.4		1.6
Residual 1064nm Leakage (%)	< 0.5		
Noise (% RMS)	< 1.0		< 2.0

Electrical Input Requirements	MiniGreen™ A30P	MiniGreen™ A50P	MiniGreen™ 60P
Voltage (V)	< 2.2		< 2.2
Current (A)	< 0.6		< 1.3
Electrical Power (W)	< 1.3		< 2.9

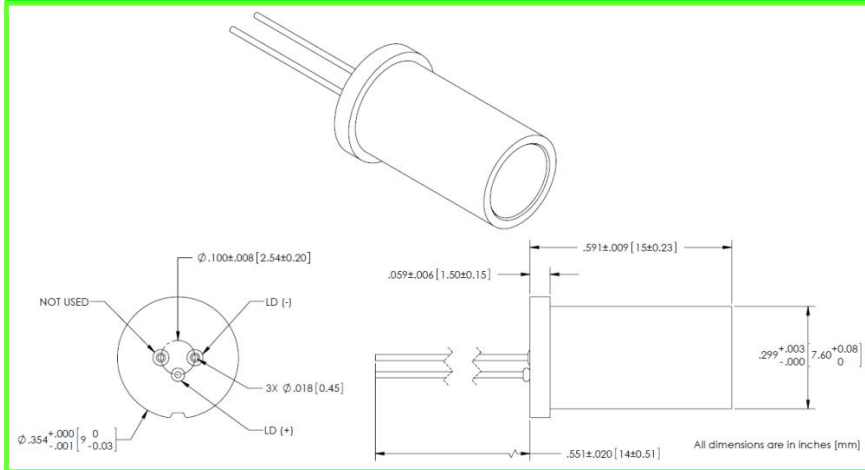
Other Specifications	MiniGreen™ A30P	MiniGreen™ A50P	MiniGreen™ 60P
CDRH Class	IIIB		
Warm-up Time ² (minutes)	< 5		
Storage (°C)	- 40 to + 80		
Op. Temp. (°C, non-condensing)	~+10 to +50		
Warranty (year)	1		

Specifications subject to change without notice. Other notes:

1. All specifications measured at factory-determined laser drive current and temperature settings, chosen within the 25 °C to 35° C range using a temperature-controlled heat sink. Higher temperature settings available with reduced output power specifications.

2. Depends on thermal management

Mechanical Specifications



Notes

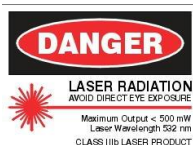
Advanced Photonic Sciences offers a limited warranty.

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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