

MiniGreen™ APC laser

Advanced Photonic Sciences

MiniGreen™ APC Series

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

Features:

- Convenient standard TO package
- Small can size Ø9.0 mm with APC functionality
- Alignment-free optical design
- Low power consumption
- Wide temperature range
- Low cost

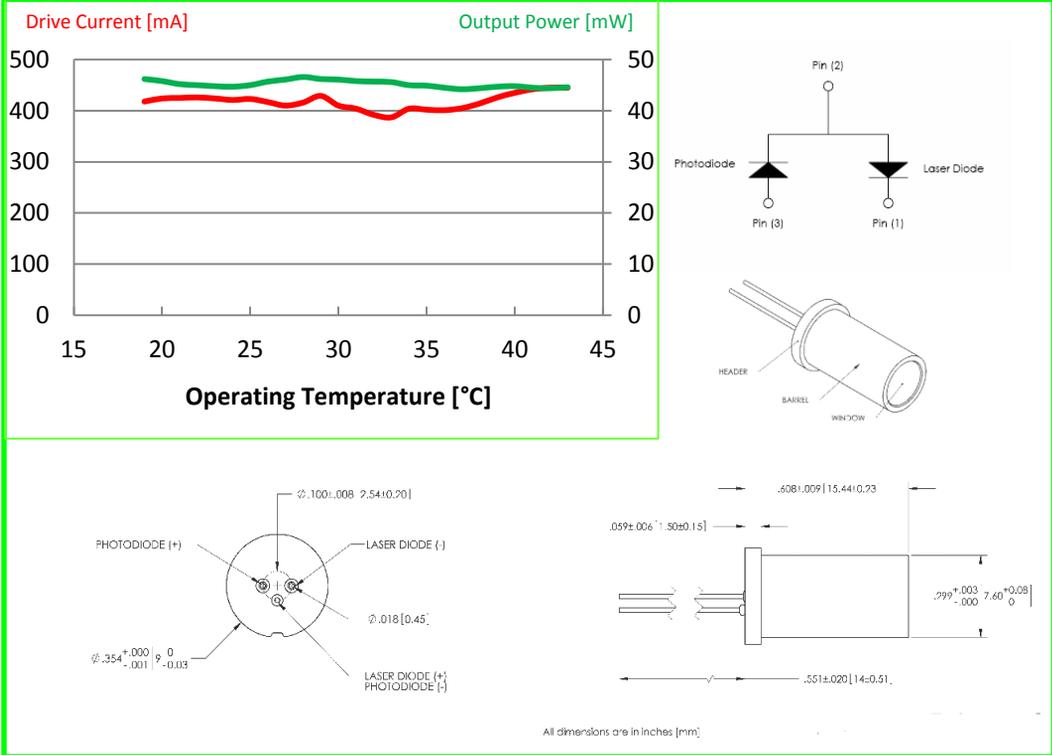
Optical Specifications	MiniGreen™ APC-A80/40	MiniGreen™ APC-150/50
Operating Mode	CW	
Target Output Power (mW)	40	50
Output Center Wavelength (nm)	532	
Minimum Operating Temperature Range (°C)	20 - 40	15 - 35
Typical Operating Temperature Range (°C, non-condensing)	30	30
Output Power Stability in Operating Temperature Range (%)	± 20	
Polarization Ratio (typ.)	4:1	
Full Angle (1/e ²) Divergence (mrad, typ.)	8	11
Beam Diameter (1/e ²) at Output Window (µm, typ.)	110	120
Beam Quality (M ² , typ.)	1.4	1.6
Residual 1064nm Leakage (%)	< 0.5	
PD Photo Current (mA)	< 2.0	

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	
Warm-Up Time (minutes)	< 2	
Storage Temperature (°C)	- 40 to +80	
Operating Temperature (°C, non-condensing)	~ +10° to +50°	
Warranty (year)	1	

Specifications subject to change without notice.

Typical Output Performance MiniGreen APC-A80/40, Mechanical Specifications, Electrical Schematic



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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