

MiniGreen™ IM Series in CIMX or FCIM Configurations

A DPSS laser module with built-in beam-expander or fiber-optic coupling, active temperature control, and drive electronics integrated on a common thermal interface for easy integration into OEM applications.

Features:

- Improved power stability over wide ambient temperature changes
- Low cost

| Optical Specifications ¹ | MiniGreen CIMX | MiniGreen FCIM |
|---|--|-------------------------------|
| Operating Mode | CW | |
| Output Center Wavelength (nm) | 532 | |
| Output Power (mW) | Dependent on IM version * Transmission loss of less than 10% | |
| Ambient Temperature Range (C) | + 10 to + 35 | |
| Power Stability over 2 Hours in +/- 2 C Ambient (% p-p) | < +/- 2 | |
| Noise (% RMS) | < 2 | |
| Polarization Ratio ² (typ.) | 4:1 | Un-polarized |
| Full Angle (1/e ²) Divergence w/4 or 8X Beam Expander (mrad, typ.) | 2.8 or 1.4 | N/A |
| Corresponding Beam Diameter (1/e ²) w/4 or 8X Beam Expander at Output Lens (mm, typ.) | 0.5 or 1.0 | N/A |
| Mode Quality (M ² , typ.) | 1.7 | |
| Standard Fiber-Optic Cable | | 50 μm core diameter, N.A 0.22 |
| Residual 1064nm Leakage (%) | < 0.5 | |

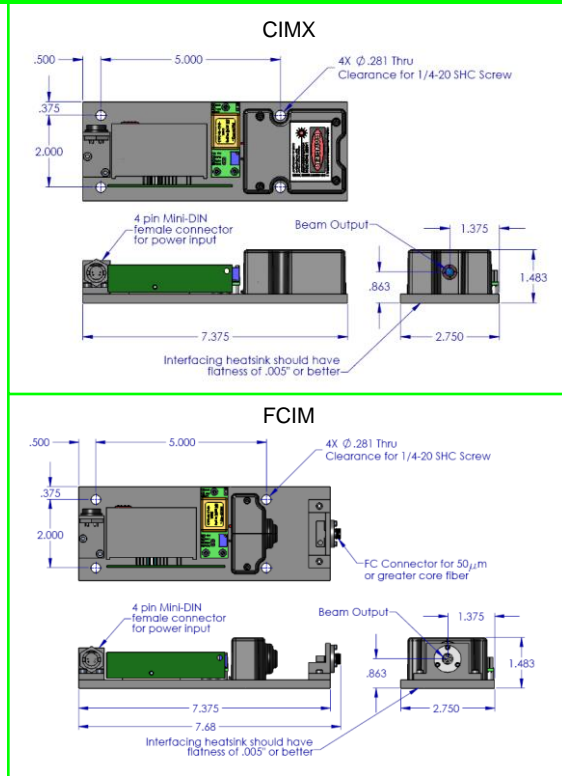
| Electrical Input Requirements | |
|----------------------------------|-----------|
| Input Voltage (V _{AC}) | 100 - 240 |
| Line Frequency (Hz) | 50/60 |
| Electrical Power (W) | < 10 |

| Other Specifications | |
|--|--------------|
| CDRH Class | IIIB |
| Warm-up Time (minutes) | < 5 |
| Storage (C) | - 40 to + 80 |
| Operating Temperature ³ (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 TEC temperature settings, chosen within the 20 to 30 C range. Consult factory to discuss applications requiring TEC settings outside the 20 to 30 C range.
2. More than 100:1 polarization ratio available with optional polarizer.
- 3.

Mechanical Specifications



Notes

Snake Creek Lasers offers a limited warranty.

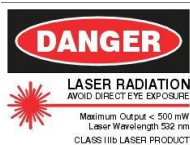
MiniGreen™ laser modules are electronic devices, and, as such, subject to damages due to electro-static discharge, overpowering, and transients.

To assure stable operation, the base plate of the MiniGreen™ Laser Module must be thermally attached onto a larger heat sink or alternatively subjected to forced airflow. Failures due to inadequate thermal management will void the warranty. Please refer to Snake Creek Lasers' Warranty Statement / Return Policy for details.

For assistance in any integration issues, please contact our experienced Applications Team at info@snakecreeklasers.com

U.S. and international patents pending.

Class IIIB <500 mW



This product is sold as an OEM laser product and does not fully comply with 21 CFR 1020 and IEC 60825-1 : 1993 as applicable.



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