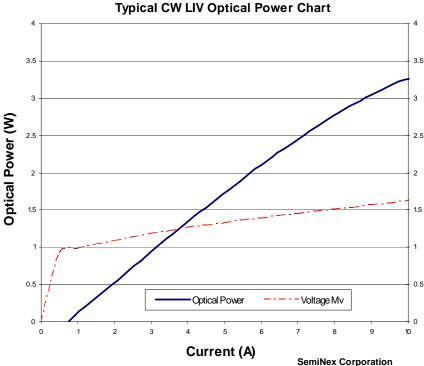




High Power Multi-Mode SemiNex Lasers >2.5 Watts of Continuous Operation Power 1470, 1532, or 1550 nm Wavelength Chip on Submount Packaging

	Symbol Typical		Units
Optical			
Output power (CW)	Po	2.8	watts
Center Wavelength Range	λ_{c}	1470, 1532, 155(nm
Emitter Width	W	95	μm
Emitter Height	Н	1	μm
Spectral Width	Δλ	10	nm 3dB
Slope Efficiency	η_{o}	0.35	W/A
Fast Axis Divergence	θ_perp	28	deg FWHM
Slow Axis Divergence	θ_parallel	9	deg FW HM
Wavelength Temp. Coeff.	λ_{coef}	0.7	nm/C
Electrical			
Power conversion Efficiency	η	0.23	
Threshold Current	I _{th}	0.6	А
Operating Current	I _{op}	8	А
Operating Voltage	V _{op}	1.5	V
Series Resistance	Rs	0.07	ohm



SemiNex Corporation 100 Corporate Place Suite 401 Peabody, MA 01960 Phone: 978-278-3550 Email: info@seminex.com Web site: www.seminex.com



SemiNex delivers the highest available CW power at infrared wavelengths. SemiNex will optimize the design of its laser chips to meet customers' optical and electrical performance specifications. Diodes are mounted and tested to meet custom applications. Typical results and packaging options are shown below. Contact SemiNex for additional details or to discuss your application.

Key Features

- High output power
- High dynamic power range
- High efficiency
- Custom packaging

Applications

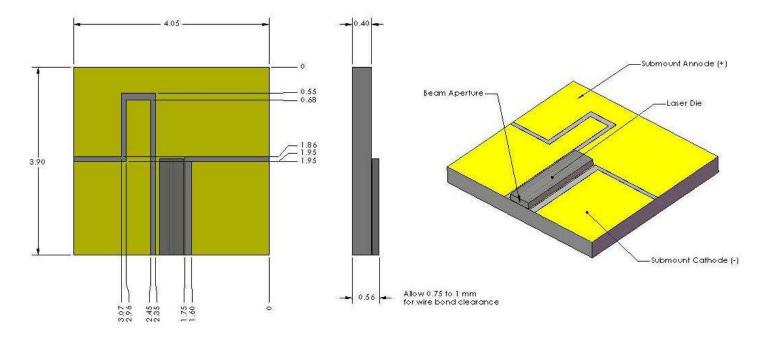
- Medical laser equipment
- LIDAR
- Free Space Optical Communication
- DPSS pump lasers
- Military / Aerospace

All statements, technical information and recommendation related to the product herein are based upon information believed to be reliable or accurate. However, the accuracy or completeness hereof is not guaranteed, and no responsibility is assumed for any inaccuracies. The user assumes all risks and liability whatsoever in connection with the use of a product or its application. SemiNex Incorporated reserves the right to change at any time without notice, the design, specification, deduction, fit or form of its described herein, including withdrawal at any time of a product offered for sale herein. SemiNex Incorporated makes no representations that the products herein are free from any intellectual property claims of others. Please contact SemiNex Incorporated for more information. © 2009 Copyright SemiNex Incorporated. All rights reserved.





	Symbol	COC-103	COC-104	COC-107	Units
Optical					
Output power (CW)	Po	2.8	2.5	2.5	watts
Center Wavelength	λ_{c}	1470	1532	1550	nm
Emitter Width	W	95	95	95	μm
Emitter Height	н	1	1	1	μm
Spectral Width	Δλ	10	10	10	nm 3dB
Slope Efficiency	η _o	0.35	0.3	0.3	W/A
Fast Axis Divergence	θ_perp	29	29	29	deg FWHM
Slow Axis Divergence	θ_parallel	9	9	9	deg FWHM
Electrical					
Power conversion Efficiency	η	0.23	0.2	0.2	
Threshold Current	l _{th}	0.6	0.6	0.6	А
Operating Current	I _{op}	8	8	8	А
Operating Voltage	V _{op}	2	2	2	V
Series Resistance	R _s	0.07	0.07	0.07	ohm



NOTE: Dimensions are in mm [in]

SemiNex Corporation

100 Corporate Place Suite 401 Peabody, MA 01960 Phone: 978-278-3550 Email: info@seminex.com Web site: www.seminex.com



All statements, technical information and recommendation related to the product herein are based upon information believed to be reliable or accurate. However, the accuracy or completeness hereof is not guaranteed, and no responsibility is assumed for any inaccuracies. The user assumes all risks and liability whatsoever in connection with the use of a product or its application. SemiNex Incorporated reserves the right to change at any time without notice, the design, specification, deduction, fit or form of its described herein, including withdrawal at any time of a product offered for sale herein. SemiNex Incorporated makes no representations that the products herein are free from any intellectual property claims of others. Please contact SemiNex Incorporated for more information. © 2009 Copyright SemiNex Incorporated. All rights reserved.