



High Power Multi-Mode SemiNex Lasers 5 Watts of Continuous Operation Power 1470, 1532, or 1550 nm Wavelength B-Mount Packaging

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

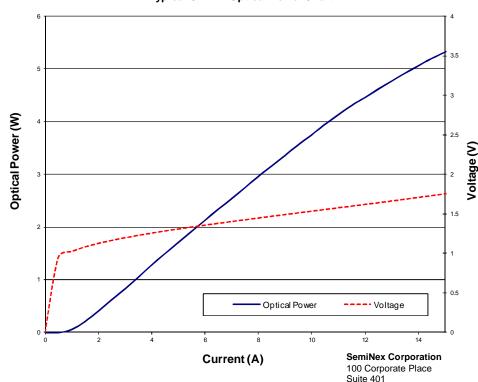
Applications

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

	Symbol	Typical	Units
Optical			
Output power (CW)	Po	5	watts
Center Wavelength Range	$\lambda_{ extsf{c}}$	1470, 1532, 1550	nm
Emitter Width	W	95	μm
Emitter Height	Н	1	μm
Spectral Width	Δλ	10	nm 3dB
Slope Efficiency	η_{o}	0.4	W/A
Fast Axis Divergence	θ_perp	26	deg FWHM
Slow Axis Divergence	θ_parallel	8	deg FWHM
Wavelength Temp. Coeff.	λ_{coef}	0.7	nm/C

Electrical			
Power conversion Efficiency	η	0.2	W/W
Threshold Current	I_{th}	0.45	Α
Operating Current	I_{op}	14	Α
Operating Voltage	V_{op}	1.8	V
Series Resistance	R_s	0.05	ohm

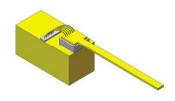
Typical CW LIV Optical Power Chart



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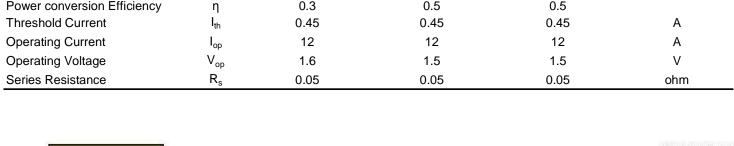


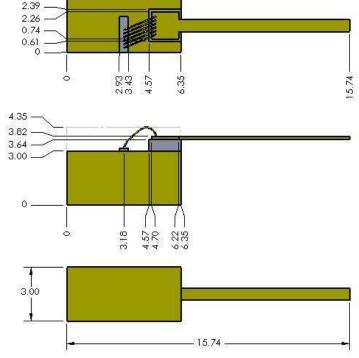
Peabody, MA 01960 Phone: 978-278-3550 Email: <u>info@seminex.com</u>



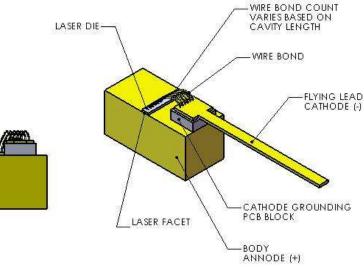


	Symbol	B-121	B-109	B-118	Units
Optical					
Output power (CW)	P_{o}	5	4.2	4.2	watts
Center Wavelength	$\lambda_{ extsf{c}}$	1470	1532	1550	nm
Emitter Width	W	95	95	95	μm
Emitter Height	Н	1	1	1	μm
Spectral Width	Δλ	10	10	10	nm 3dB
Slope Efficiency	$\eta_{\rm o}$	0.4	0.5	0.5	W/A
Fast Axis Divergence	θ_perp	26-30	26-30	26-30	deg FWHM
Slow Axis Divergence	θ_parallel	4- 8	4 - 8	4- 8	deg FWHM
Electrical					
Power conversion Efficiency	n	Λ3	0.5	0.5	









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