



## **Single Mode Lasers**

High Power Single Mode SemiNex Lasers Up to 600 mW of CW Power 1310, 1550, or 1625 nm Wavelengths B-Mount or C-Mount Options Now Available

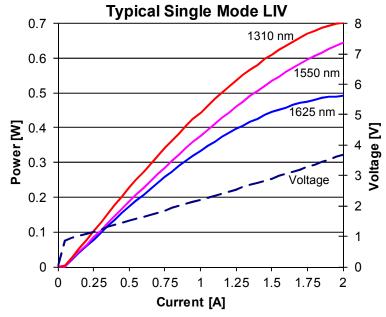
## **Features**

- High output power
- CW and QCW operation
- High efficiency

## **Applications**

- OTDR
- Remote Sensing
- Illumination
- LIDAR
- Free Space Optical Communications
- Military / Aerospace

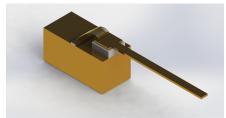
SemiNex delivers the highest available power at infrared wavelengths between 13xx and 17xx nm. When necessary we will further optimize the design of our InP laser chips to meet our customers' specific optical and electrical performance needs. Diodes, bars and packages are tested to meet customer and market performance demands. Typical results and packaging options are shown. Contact SemiNex for additional details or to discuss your specific requirements



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. © 2012 Copyright SemiNex Incorporated. All rights reserved.

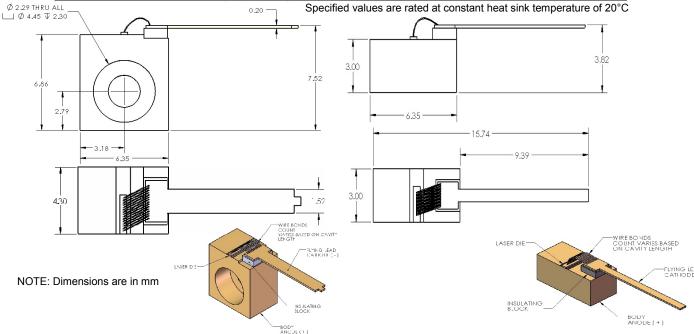


## **Single Mode**





	PN	B-102 / C-125	B-115 / C-121	B-124 / C-123	Units
Optical	Symbol				
Center Wavelength	λο	1310	1560	1650	nm
Output power (CW)	P∘	630	600	450	mW
Emitter Width	W	5	4	4	μm
Emitter Height	Н	1	1	1	μm
Spectral Width	Δλ	15	15	15	nm 3dB
Slope Efficiency	ηο	0.4	0.3	0.3	W/A
Fast Axis Divergence	θ_perp	30	30	30	deg FWHM
Slow Axis Divergence	θ_parallel	13	13	13	deg FWHM
Electrical					
Power conversion Efficiency	η	13	11	9	%
Threshold Current	<b>I</b> th	50	50	50	mA
Operating Current	<b>l</b> op	1.6	1.8	1.6	Α
Operating Voltage	$V_{op}$	3	3.1	3	V
Series Resistance	Rs	1.3	1.2	1.4	ohm
Mechanical					
Weight		0.5 / 1.4	0.5 / 1.4	0.5 / 1.4	g
Operating Temperature		10 to 30	10 to 30	10 to 30	°C
Storage Temperature	-	-20 to 80	-20 to 80	-20 to 80	°C



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. © 2012 Copyright SemiNex Incorporated. All rights reserved.

