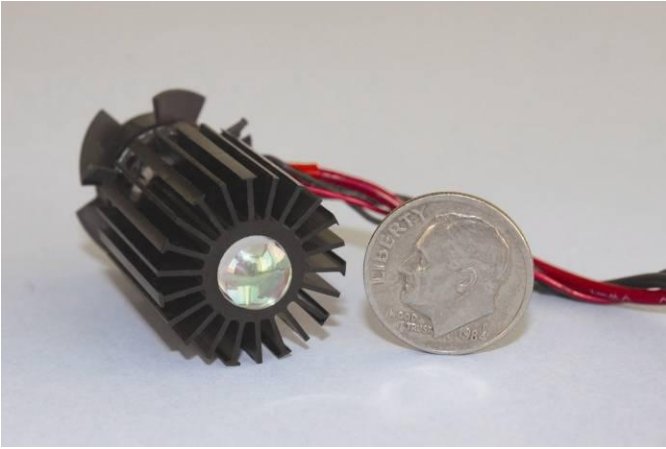




High Power Multi-Mode SemiNex Laser
 3 Watts of Continuous Operation Power
 808, 1470, 1532, or 1550 nm Wavelength
 Laser Engine Packaging



SemiNex delivers the highest available CW power at infrared wavelengths in a low-cost package with integrated cooling and optical lensing. SemiNex will optimize the design of its laser chips and packaging to meet customers' optical, electrical, and mechanical performance specifications. Typical results and packaging options are shown below. Contact SemiNex for additional details or to discuss your application.

Key Features

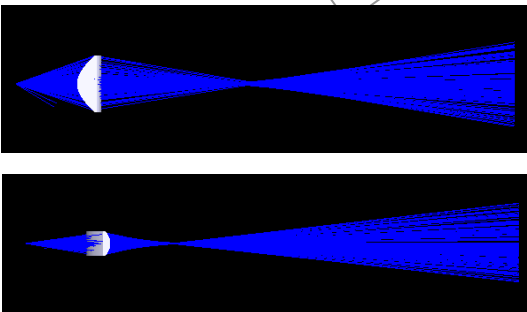
- Ultra low-cost assembly
- Ultra-high volume capability
- High output power
- High dynamic power range
- High efficiency
- Custom packaging

Applications

- Medical laser equipment
- Home Laser Applications

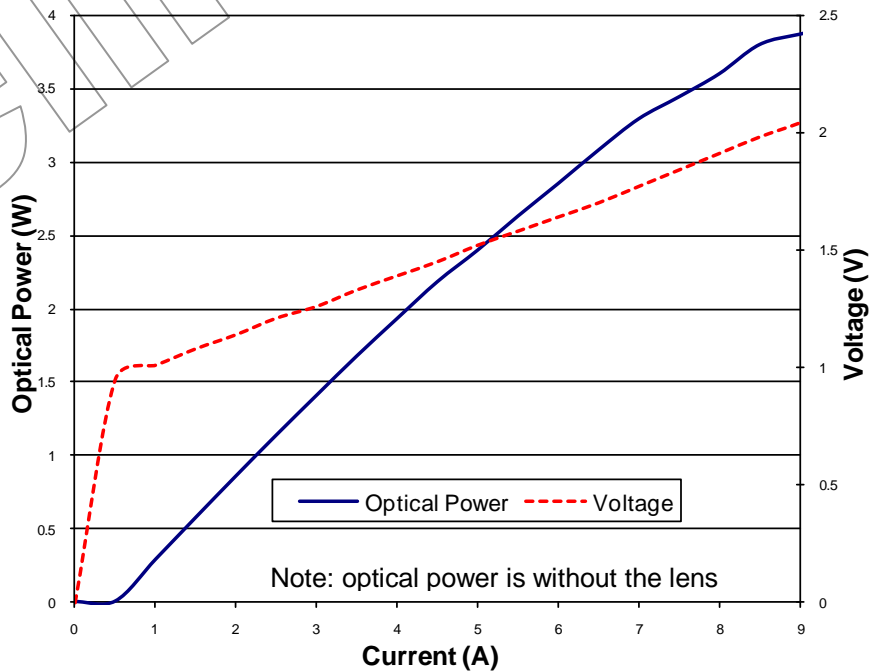
Optical Design

- Designed to suite customer needs
- Collimated, converging, or diverging beam profiles available per customer requirements. (examples shown below)

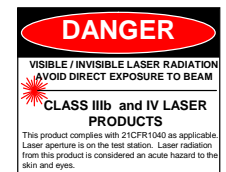


	Symbol	Typical	Units
Optical			
Output Power (CW)	P_o	3	watts
Center Wavelength Range	λ_c	808, 1470, 1532, 1550	nm
Spectral Width	$\Delta\lambda$	10	nm 3dB
X Axis Divergence	θ_X	6	deg FWHM
Y Axis Divergence	θ_Y	7	deg FWHM
Wavelength Temp. Coeff.	λ_{coef}	0.7	nm/C
Electrical			
Power conversion Efficiency	η	0.5	
Threshold Current	I_{th}	0.5	A
Operating Current	I_{op}	6	A
Operating Voltage	V_{op}	1.5 - 2.0	V
Series Resistance	R_s	0.15	ohm

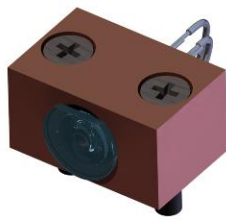
Typical CW LIV Optical Power Chart



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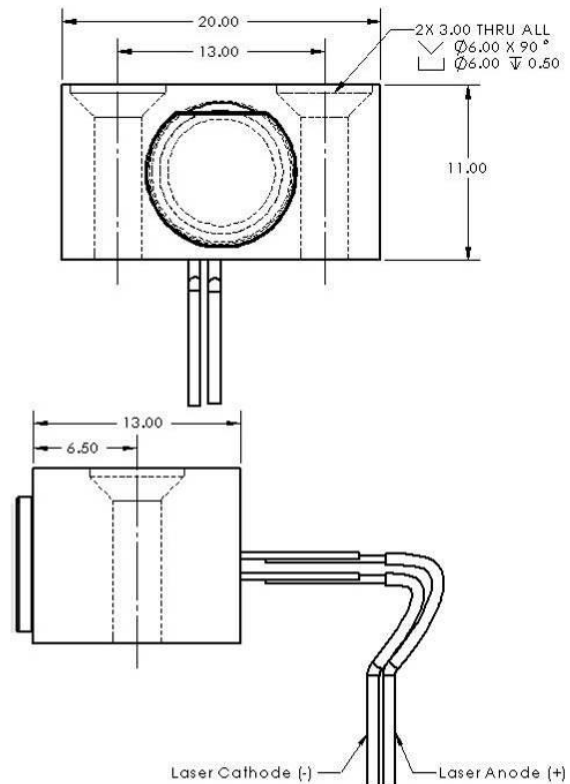
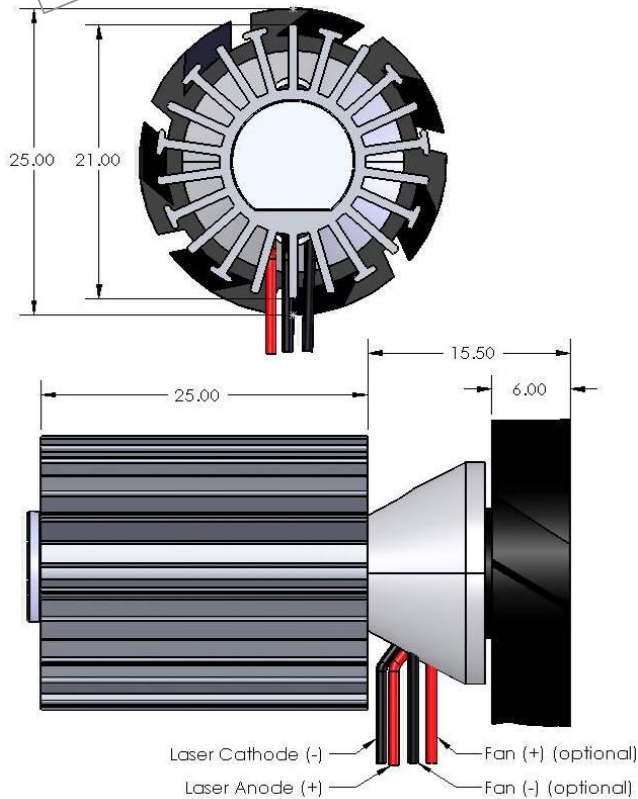


	Symbol	LE-1470-4-X	LE-1532-4-X	LE-1550-4-X	LE-808-4-X	Units
Optical						
Output power (CW)	P_o	3	2.5	2.5	TBA	watts
Center Wavelength	λ_c	1470	1532	1550	808	nm
Spectral Width	$\Delta\lambda$	10	10	10	TBA	nm 3dB
X Axis Divergence*	θ_X	6	6	6	TBA	deg FWHM
Y Axis Divergence*	θ_Y	7	7	7	TBA	deg FWHM
Electrical						
Power conversion Efficiency	η	0.5	0.5	0.5	TBA	
Threshold Current	I_{th}	0.5	0.5	0.5	TBA	A
Operating Current	I_{op}	6	6	6	TBA	A
Operating Voltage	V_{op}	1.5	1.5	1.5	TBA	V
Series Resistance	R_s	0.15	0.15	0.15	TBA	ohm
Fan (Optional)						
Voltage (DC)	VDC	5	5	5	TBA	VDC
Power	watts	0.7	0.7	0.7	TBA	watts
Air Flow	CFM	3.5	3.5	3.5	TBA	CFM

* Divergence is dependent on the lens used. This can be customized to meet customer requirements.

**PACKAGE 1
(X="Q")**

**PACKAGE 2
(X="P")**



NOTE: Dimensions are in mm

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