



High Power Multi-Mode SemiNex Lasers
 4* Watts of Continuous Operation Power
 1470, 1532, or 1550 nm Wavelength
 4-Pin Fiber-Coupled

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

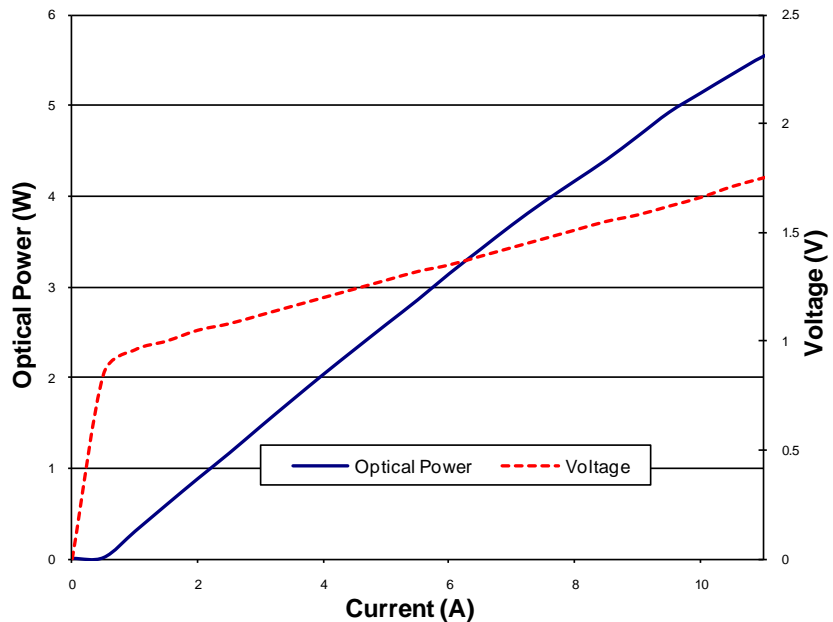
Applications

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

	Symbol	Typical	Units
Optical			
Output power (CW)	P_o	4	watts
Center Wavelength Range	λ_c	1470, 1532, 1550	nm
Emitter Width	W	95	μm
Emitter Height	H	1	μm
Spectral Width	$\Delta\lambda$	10	nm 3dB
Slope Efficiency	η_o	0.5	W/A
Optical Fiber Core Diameter		105	μm
Optical Fiber NA		0.22	
Wavelength Temp. Coeff.	λ_{coef}	0.7	nm/C

Electrical			
Power conversion Efficiency	η	0.5	
Threshold Current	I_{th}	0.45	A
Operating Current	I_{op}	8	A
Operating Voltage	V_{op}	1.5	V
Series Resistance	R_s	0.05	ohm

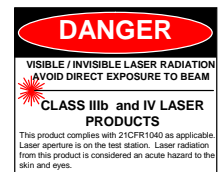
Typical CW LIV Optical Power Chart

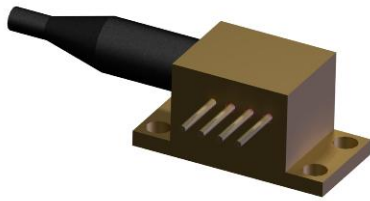


* 5 Watts of Continuous Operation Power available soon

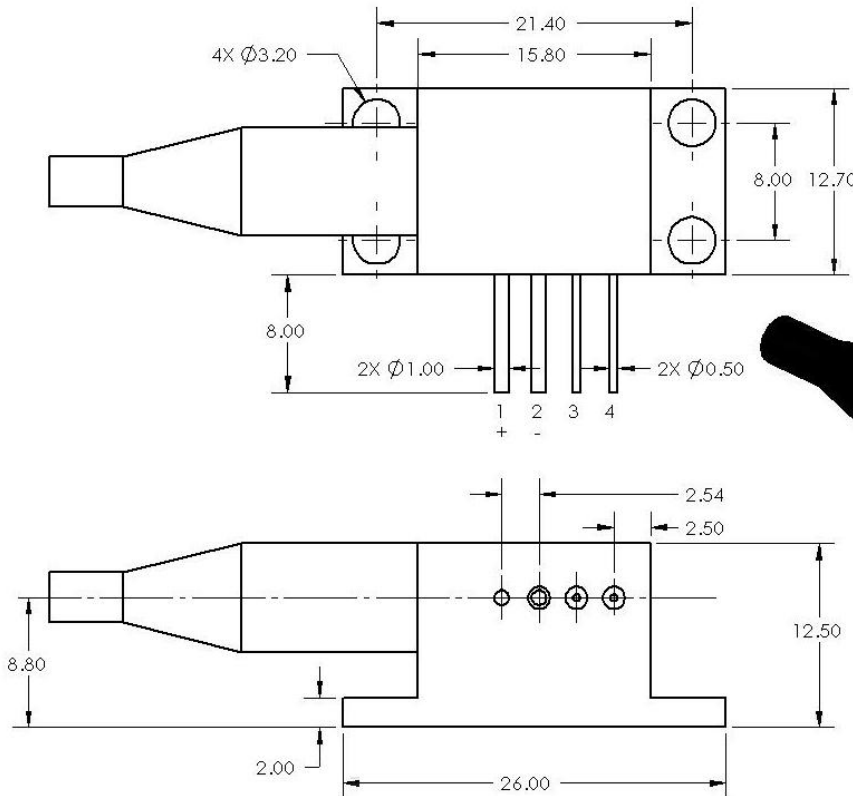
SemiNex Corporation
 100 Corporate Place
 Suite 401
 Peabody, MA 01960
 Phone: 978-278-3550
 Email: info@seminex.com
 Web site: www.seminex.com

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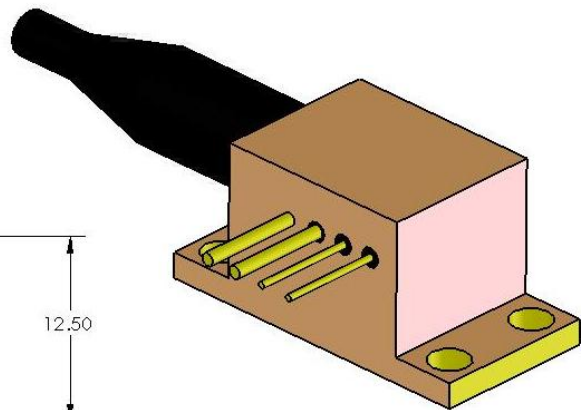


	Symbol	4PN-1470-6-95	4PN-1532-6-95	4PN-1550-6-95	LE-808-6-95	Units
Optical						
Output power (CW)	P_o	4	3.5	3.5	TBA	watts
Center Wavelength	λ_c	1470	1532	1550	808	nm
Emitter Width	W	95	95	95	TBA	μm
Emitter Height	H	1	1	1	TBA	μm
Spectral Width	$\Delta\lambda$	10	10	10	TBA	nm 3dB
Slope Efficiency	η_o	0.5	0.5	0.5	TBA	W/A
Optical Fiber Core Diameter		105	105	105	TBA	μm
Optical Fiber NA		0.22	0.22	0.22	TBA	
Electrical						
Power conversion Efficiency	η	0.5	0.5	0.5	TBA	
Threshold Current	I_{th}	0.45	0.45	0.45	TBA	A
Operating Current	I_{op}	8	8	8	TBA	A
Operating Voltage	V_{op}	1.5	1.5	1.5	TBA	V
Series Resistance	R_s	0.05	0.05	0.05	TBA	ohm
Lead Soldering Temperature	$^{\circ}\text{C}$	250	250	250	TBA	$^{\circ}\text{C}$



PIN CALLOUT: (FOR REFERENCE ONLY, REFER TO DOCUMENTATION SUBMITTED WITH PRODUCT FOR ACTUAL PIN CALLOUTS)

1. LASER ANODE (+), CASE
2. LASER CATHODE (-)
3. PD(N)
4. PD(P)



NOTE: Dimensions are in mm

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

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