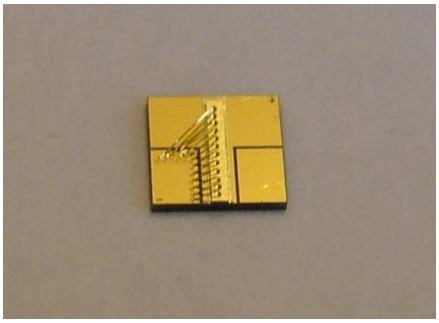


High Power Multi-Mode SemiNex Lasers
>2.5 Watts of Continuous Operation Power
1470, 1532, or 1550 nm Wavelength
Chip on Submount Packaging

	Symbol	Typical	Units
Optical			
Output power (CW)	P_o	2.8	watts
Center Wavelength Range	λ_c	1470, 1532, 155(	nm
Emitter Width	W	95	µm
Emitter Height	H	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 FWHM
Wavelength Temp. Coeff.	λ_{coef}	0.7	nm/C

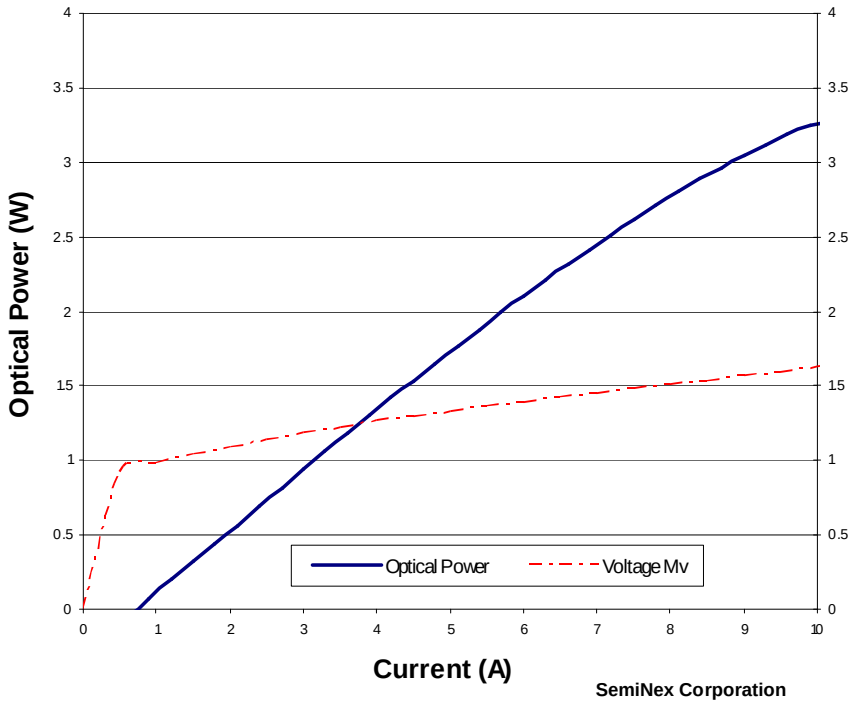
Electrical			
Power conversion Efficiency	η	0.23	
Threshold Current	I_{th}	0.6	A
Operating Current	I_{op}	8	A
Operating Voltage	V_{op}	1.5	V
Series Resistance	R_s	0.07	ohm

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

Typical CW LIV Optical Power Chart



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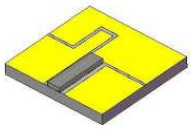
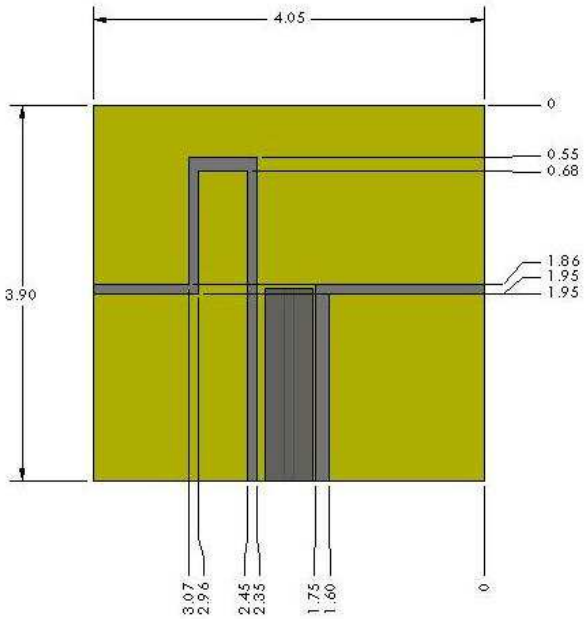
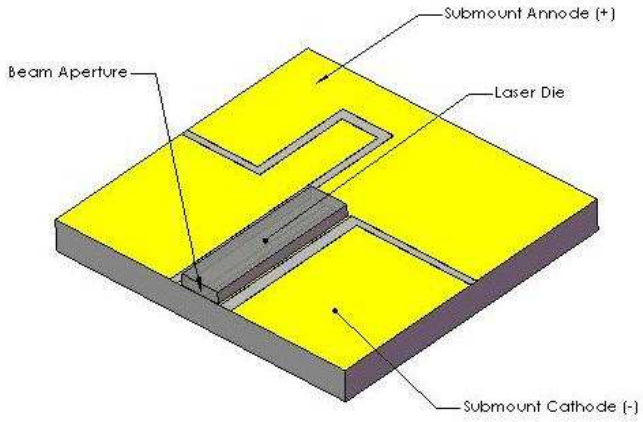


	Symbol	COC-103	COC-104	COC-107	Units
Optical					
Output power (CW)	P_o	2.8	2.5	2.5	watts
Center Wavelength	λ_c	1470	1532	1550	nm
Emitter Width	W	95	95	95	µm
Emitter Height	H	1	1	1	µm
Spectral Width	Δλ	10	10	10	nm 3dB
Slope Efficiency	η_o	0.35	0.3	0.3	W/A
Fast Axis Divergence	θ_perp	29	29	29	deg FWHM
Slow Axis Divergence	θ_parallel	9	9	9	deg FWHM
Electrical					
Power conversion Efficiency	η	0.23	0.2	0.2	
Threshold Current	I_{th}	0.6	0.6	0.6	A
Operating Current	I_{op}	8	8	8	A
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]

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