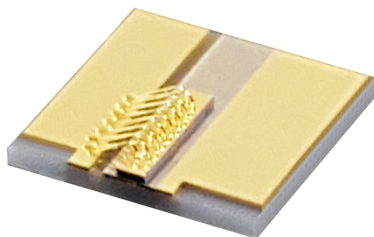
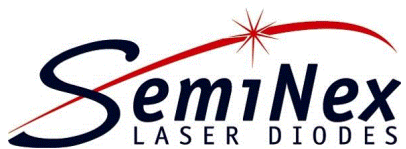


Preliminary Data Sheet



COC 2.5mm PRELIMINARY

High Power SemiNex Lasers
 12xx to 19xx nm
 Custom Wavelengths Available

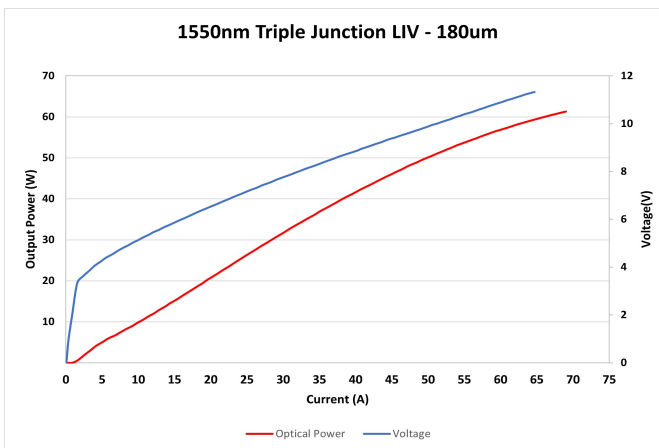
Applications

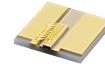
- OEM Medical
- Telecom/OTDR
- DPSS pump source
- LiDAR
- Military / Aerospace

Features

- Cost effective
- High Output Power
- High Efficiency
- Standard Package

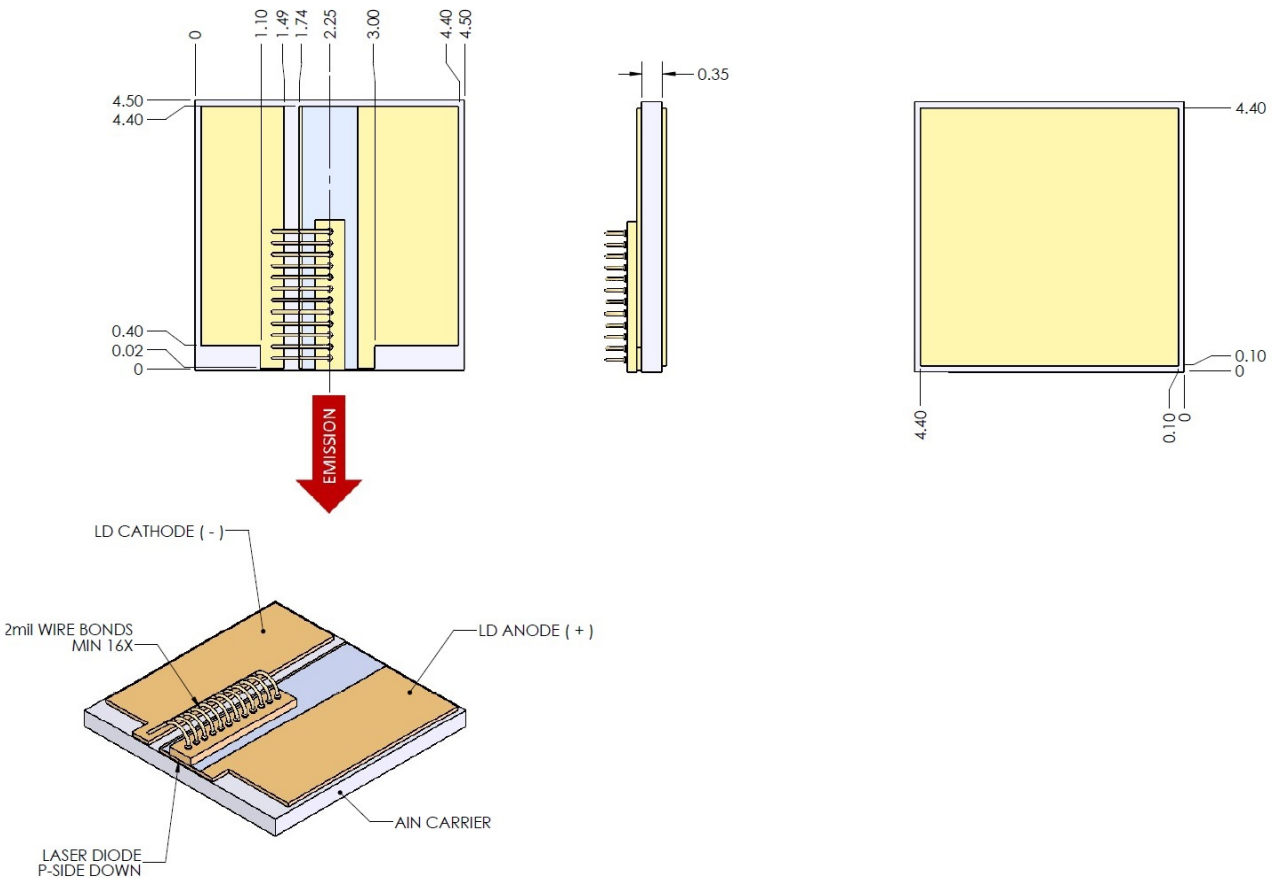
SemiNex delivers the highest available power at infrared wavelengths between 12xx and 19xx nm. When necessary we will further optimize the design of our InP laser chips to meet our customers' specific optical and electrical performance needs. Diodes, bars and packages are tested to meet customer and market performance demands. Typical results and packaging options are shown. Contact SemiNex for additional details or to discuss your specific requirements.





	Symbol	COC-266	Units
Optical			
Wavelength	λ_c	1550	nm (± 20)
Output Power (<10ns)	P_s	80.00	watts ($\pm 10\%$)
Output Power (150ns)	P_r	52.00	watts ($\pm 10\%$)
Chip Cavity Length	CL	2500	μm
Emitter Width	W	180	μm
Emitter Height	H	10	μm
Spectral Width	$\delta\lambda$	22	nm 3dB
Slope Efficiency	η_s	0.90	W/A
Fast Axis Div.*	Θ_{perp}	28	deg FWHM
Slow Axis Div.	Θ_{parallel}	12	deg FWHM
Electrical			
Power Conversion Eff.	η	8	%
Threshold Current	I_{th}	1	A
Operating Current (<10ns)	I_{op}	90	A
Operating Current (150ns)	I_{op}	56	A
Operating Voltage	V_{op}	11	V
Mechanical			
Weight		0.05	g
Operating Temp.**		-40 to 85	$^{\circ}\text{C}$
Storage Temp.		-40 to 85	$^{\circ}\text{C}$

Specified values are rated at a constant heat sink temperature of 20°C.
 **Specified operating conditions are based on 20C heat sink temperature. High temperature operation will reduce performance and MTTF.
 Unless otherwise indicated all values are nominal.



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