



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.



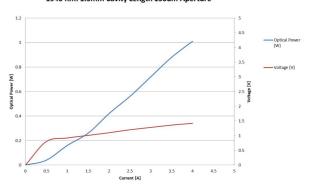
COC 2.5mm PRELIMINARY

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 EfficiencyStandard Package

1940 nm: 1.5mm Cavity Length 150um Aperture



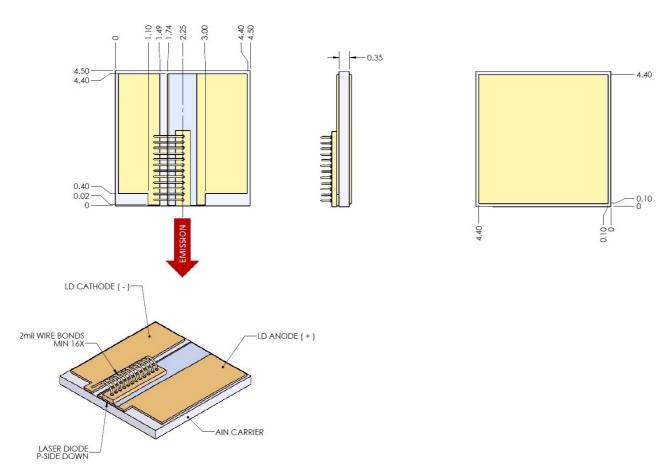




	Symbol	COC-271	Units
Optical			
Wavelength	λ _C	1940	nm (±20)
Ouput Power (CW)	P∘	1.10	watts (±10%)
Chip Cavity Length	CL	1500	μm
Emitter Width	W	150	μm
Emitter Height	Н	1	μm
Spectral Width	δλ	10	nm 3dB
Slope Efficiency	η∘	0.24	W/A
Fast Axis Div.*	Θ_perp	44	deg FWHM
Slow Axis Div.	Θ_parallel	11	deg FWHM
Electrical			
Power Conversion Eff.	η	22	%
Threshold Current	l _{th}	0.35	A
Operating Current (<10ns)	I _{op}	0	A
Operating Current (150ns)	lop	4.5	A
Operating Voltage	V _{op}	1	V
Mechanical	·		
Weight		0	g
Operating Temp.**		15 to 30	°C
Storage Temp.		-20 to 60	°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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