



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.Fast axis collimated <2 degrees with f=7.7mm lens.



Laser Engine

High Power Multi-Mode SemiNex Lasers 12xx to 19xx nm Custom Wavelengths Available Low Cost Packaging

- Applications

 OEM Medical
 Consumer Medical
 LIDAR
 Range Finding
 Research and Development
 Military / Aerospace

- Features

 Cost effective

 High Output Power

 High Dynamic Range

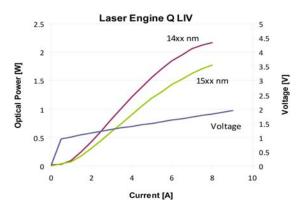
 High Efficiency

 Standard Low Cost Package

 "P" and "Q" Packages Available

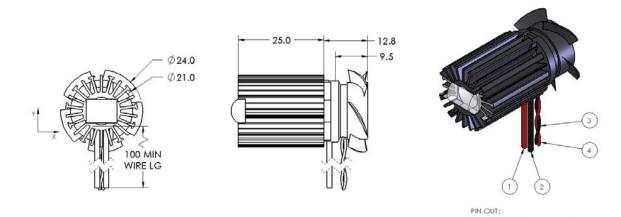
 Designed for Volume Applications

 Fast axis collimated <2 degrees with f=7.7mm lens.



Laser Engine Q

	Symbol	LEQ-121-172	Units
Optical			
Center Wavelength	λ _c	1465	nm (±20)
Output Power (CW)	P∘	2.00	watts (±10%)
Spectral Width	δλ	10	nm 3dB
X Axis Divergence**	θ_X	2	deg FWHM
Y Axis Divergence**	θ_Y	10	deg FWHM
Electrical			
Power Conversion Eff.	η	21.00	%
Threshold Current	I _{th}	0.5	A
Operating Current Max*	I _{op}	8	A
Operating Voltage	V _{op}	1.4	V
Series Resistance	R₅	0.1	ohm
Fan			
Voltage (DC)	VDC	5	VDC
Power	watts	0.4	W
Air Flow	CFM	3	CFM
Mechanical			
Weight	-	17	g
Operating Temp.		-40 to 60	°C
Storage Temp.		-40 to 80	°C



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LD ANODE (+), #20AWG LD CATHODE (-), #20AWG FAN (+5V), #28AWG FAN (-), #28AWG

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Specified values are rated at a constant heat sink temperature of 20°C.

**Specified operating conditions are based on 20°C heat sink temperature. High temperature operation will reduce performance and MTTF.

Unless otherwise indicated all values are nominal.

** Divergence is dependent on lens used. It is customized to meet customer requirements.