High Power Laser Diode Laser Engine-Q Package



Part Number: LEQ-126

High Power Laser Engine-Q Package Multi-Mode Fabry-Perot Laser Diode Wavelength at 1450nm



Features

- High Output Power
- High Dynamic Range
- High Efficiency
- Laser Engine-Q Package
- Cost Effective

Application

Home Medical



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 & GaSb 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.

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High Power Laser Diode Laser Engine-Q Package



Specification

LEQ-126



Optical	Symbol	Тур.	Units
Center Wavelength	λ_{c}	1450	nm (±20)
Output Power (CW)*	P _{out}	1.6	watts (±10%)
Spectral Width	δλ	10	nm 3dB
X-Axis Divergence*	Θ_{X}	10	deg FMHW
Y -Axis Divergence*	Θγ	2	deg FWHM
Electrical	Symbol		Units
Power Conversion Eff.	η	21	%
Operating Current	l _{op}	7	А
Threshold Current	I _{TH}	0.5	А
Operating Voltage	V _{op}	1.4	V
Fan	Symbol		Units
Voltage (DC)	VDC	5	V
Power	watts	0.4	W
Air Flow	CFM	3	cubic feet/minute
		Range	
Operating Temp.**		-40 to 60	°C
Storage Temp.		-40 to 80	°C

^{*}Refer to Mechanical drawing.

^{**}Laser engine includes FAC Lens and Cooling Fan

^{*}Specified values are rated at a constant heat sink temperature of 20°C.

**High temperature operation will reduce performance and MTTF.

Unless otherwise indicated all values are nominal.

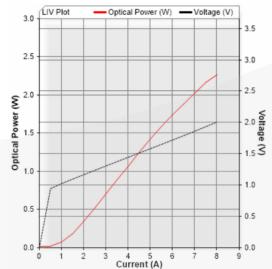
High Power Laser Diode Laser Engine-Q Package



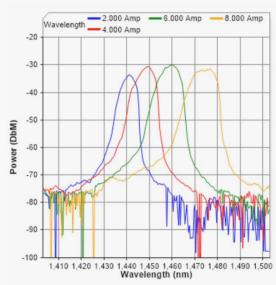
SemiNex Laser Diodes LEQ-126 Graphs & Data



Typical LEQ L-I-V Characteristics



Typical LEQ Output Spectrum



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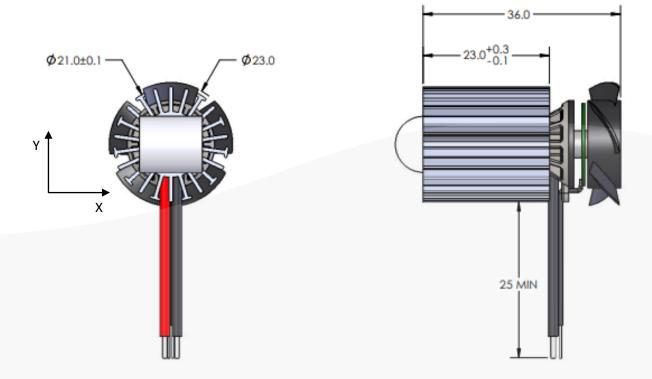
High Power Laser Diode Laser Engine-Q Package



Mechanical Drawing

PIN OUT:		
1.	LD Anode (+), #20 AWG	
2.	LD Cathode (-), #20 AWG	
3.	FAN (+5V), #28 AWG	
4.	FAN (-), #28 AWG	





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