11/30/23, 4:16 PM PI Sheet





B-Mount

High Power Single-Mode and Multi-Mode SemiNex Lasers

12xx to 19xx nm

Custom Wavelengths Available Lensed Options Available

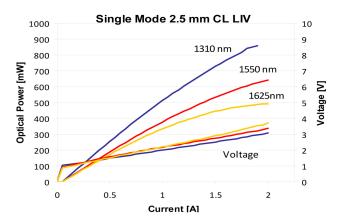
- Applications
 OEM Medical
 DPSS pump source
- LiDAR
- · Military / Aerospace

Features

- Cost effective High Output Power
- High Dynamic Range
- High EfficiencyStandard Low Cost Package

SemiNex delivers the highest available power at infrared wavelengths between 12xxnm and 16xxnm as well 19xxnm wavelengths between 12xxnm and 16xxnm as well 19xxnm to 24xxnm. When necessary we will further optimize the design of our InP or 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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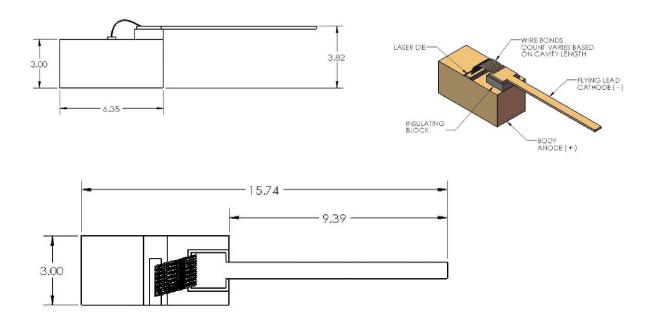
	Symbol	B-163	Units
Optical	•		
Wavelength	$\lambda_{_{\mathbf{C}}}$	1320	nm (±20)
Output Power (CW)	P _°	0.80	watts (±10%)
Chip Cavity Length	CL	2500	μm
Emitter Width	W	4	μm
Emitter Height	Н	1	μm
Spectral Width	δλ	15	nm 3dB
Slope Efficiency	η۰	0.50	W/A
Fast Axis Div.*	Θ_perp	30	deg FWHM
Slow Axis Div.	Θ_parallel	10	deg FWHM
Electrical			
Power Conversion Eff.	η	15	%
Threshold Current	I _{th}	0	A
Operating Current	I _{op}	2	A
Operating Voltage	V_{op}	2.7	V
Mechanical			
Weight		0.5	g
Operating Temp.**		-40 to 60	°C
Storage Temp.		-40 to 80	°C
Operating Voltage Min.		0	V
Operating Voltage Max.		0	V

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.

*Fast Axis Divergence can be changed with lens option.



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