

Part Number: C-130

High Power C-mount Multi-Mode Fabry-Perot CW Wavelength at 1320nm Lensed Options Available



### **Features**

- High Output Power
- High Dynamic Range
- High Efficiency
- Standard C-mount
- Cost Effective

## **Application**

Professional 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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## Specification

C-130



Optical	Symbol	Тур.	Units
Center Wavelength	λ <sub>c</sub>	1320	nm (±20)
Output Power (CW)*	Pout	5.7	watts (±10%)
Emitter Width	W	95	μm
Spectral Width FWHM	Δλ	15	nm
Slope Efficiency	η	0.5	W/A
Fast Axis Div.	Θ⊥	28	deg FWHM
Slow Axis Div.	Θ	9	deg FWHM
Electrical	Symbol		Units
Power Conversion Eff.	η	27	%
Threshold Current	Ітн	0.45	Α
Operating Current	lop	14	А
Operating Voltage	V <sub>op</sub>	1.8	V
Mechanical	Symbol	Range	Units
Operating Temp.**	•	-40 to 60	°C

\*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.

#### \*Available Lenses

Suffix	Description	
-118	Lens Collimated <10mrad f=274μm, 5mm Lg	
-134	Lens Matched f=274μm, 5mm Lg	
-141	Lens, FAC, f=590μm, 5mm Lg, Collimated 5mrad	
-186	Lens, FAC, f=590μm, 5mm Lg, WD=50μm	

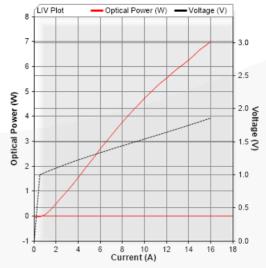


#### SemiNex Laser Diodes C-130

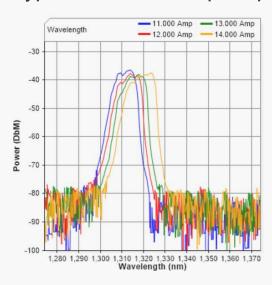
Graphs & Data

### Typical C-mount L-I-V Characteristics





### Typical C-mount Output Spectrum

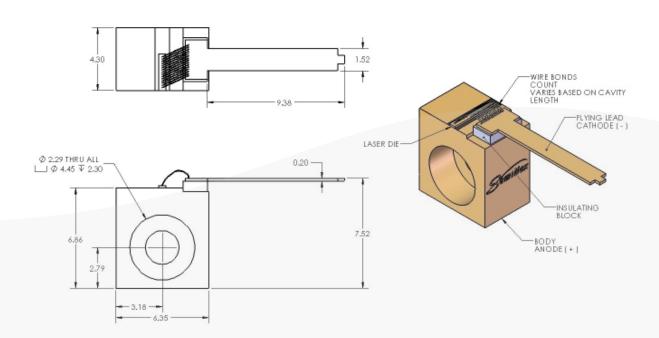


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### **Mechanical Drawing**





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### **Mechanical Drawing**

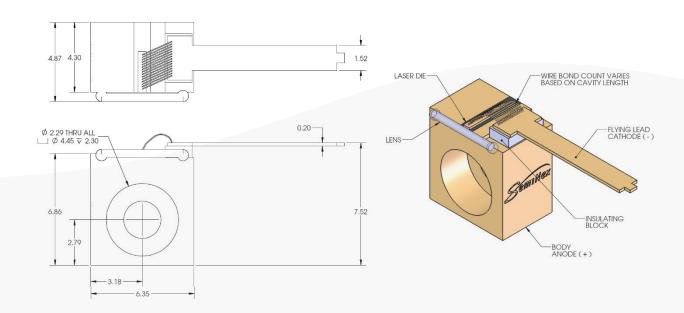
C-130-118

C-130-134

C-130-141

C-130-186





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