# High Power Laser Diode Chip on Carrier



Part Number: COC-240

High Power Chip on Carriers Multi-Mode Fabry-Perot Wavelength at 1726nm



#### **Features**

- High Output Power
- High Dynamic Range
- High Efficiency
- Standard Chip on Carrier
- Cost Effective

### **Application**

- Professional Medical
- Home-use 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

#### COC-240



Optical	Symbol	Тур.	Units
Center Wavelength	λ <sub>c</sub>	1726	nm (±20)
Output Power CW	Pout	3.0	watts (±10%)
Emitter Width	W	180	μm
Spectral Width FWHM	Δλ	12	nm
Slope Efficiency	η	0.28	W/A
Fast Axis Div.	ΘТ	28	deg FWHM
Slow Axis Div.	Θ	9	deg FWHM
Electrical	Symbol		Units
Power Conversion Eff.	η	14	%
Operating Current	l <sub>op</sub>	13	А
Threshold Current	Ітн	1.7	А
Operating Voltage	Vop	1.6	V
Mechanical		Range	Units
Operating Temp.**		-40 to 60	°C
Storage Temp.		-40 to 80	°C

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

\*\*High temperature operation will reduce performance and MTTF.

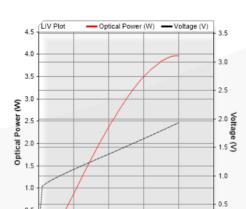
Unless otherwise indicated all values are nominal.

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# SemiNex Laser Diodes COC-240 Graphs & Data

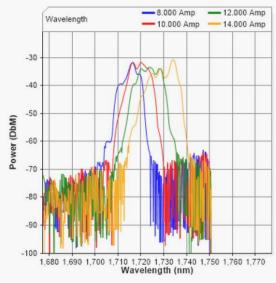
Typical COC L-I-V Characteristics



10 15 Current (A)



#### Typical COC Output Spectrum



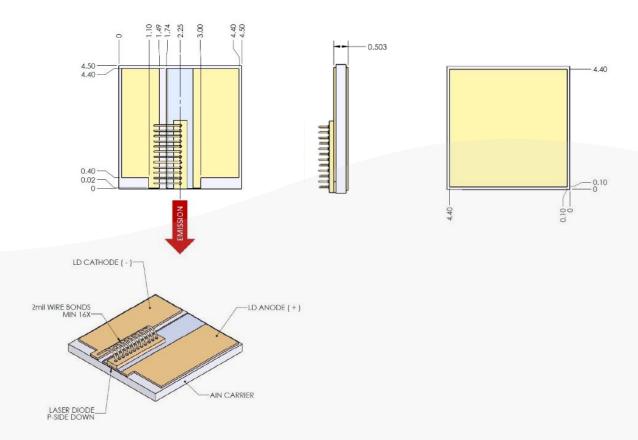
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#### **Mechanical Drawing**





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