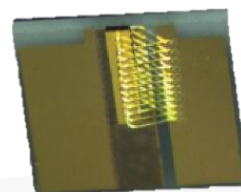


# High Power RSOA Chip on Carriers



## Part Number: COC-286

High Power RSOA Chip on Carrier  
Single-Mode RSOA Curved Waveguide  
Wavelength at 1550nm



## Features

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

## Application

- Optical Communications
- LiDAR
- Free Space Communications
- Network Test Equipment



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.

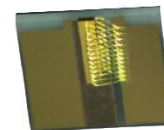
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# High Power RSOA Chip on Carriers



## Specification

COC-286



Optical	Symbol	Typ.	Units
Center Wavelength	$\lambda_c$	1550	nm
ASE Output Power @ 1A	$P_{out}$	0.2	watts
Aperture Width	AW	4	$\mu m$
Spectral Width	$\Delta\lambda$	85	nm @ 3dB
Beam Exit Angle	$\theta_{EXT}$	19.5	Degree
Fast Axis Div.	$\theta_{\perp}$	30	Deg FWHM
Slow Axis Div.	$\theta_{\parallel}$	20	Deg FWHM
Front Facet Reflectivity		<0.1%	
Rear Face Reflectivity		98%	
Waveguide		Curved	
Electrical	Symbol		Units
Operating Current	$I_{op}$	1	A
Operating Voltage	$V_{op}$	2	V
Mechanical		Range	Units
Chip Width		500	$\mu m$
Operating Temp.**		-20 to 75	$^{\circ}C$
Storage Temp.		-40 to 85	$^{\circ}C$

\*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.

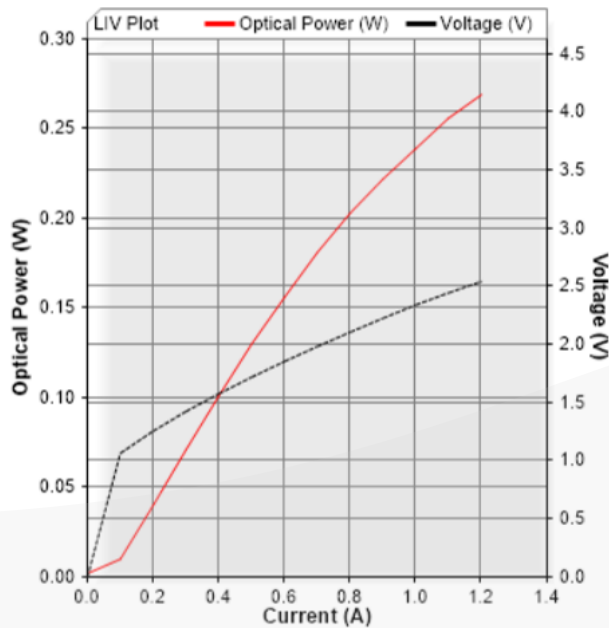
# High Power RSOA Chip on Carriers



## SemiNex RSOA COC-286

### Graphs & Data

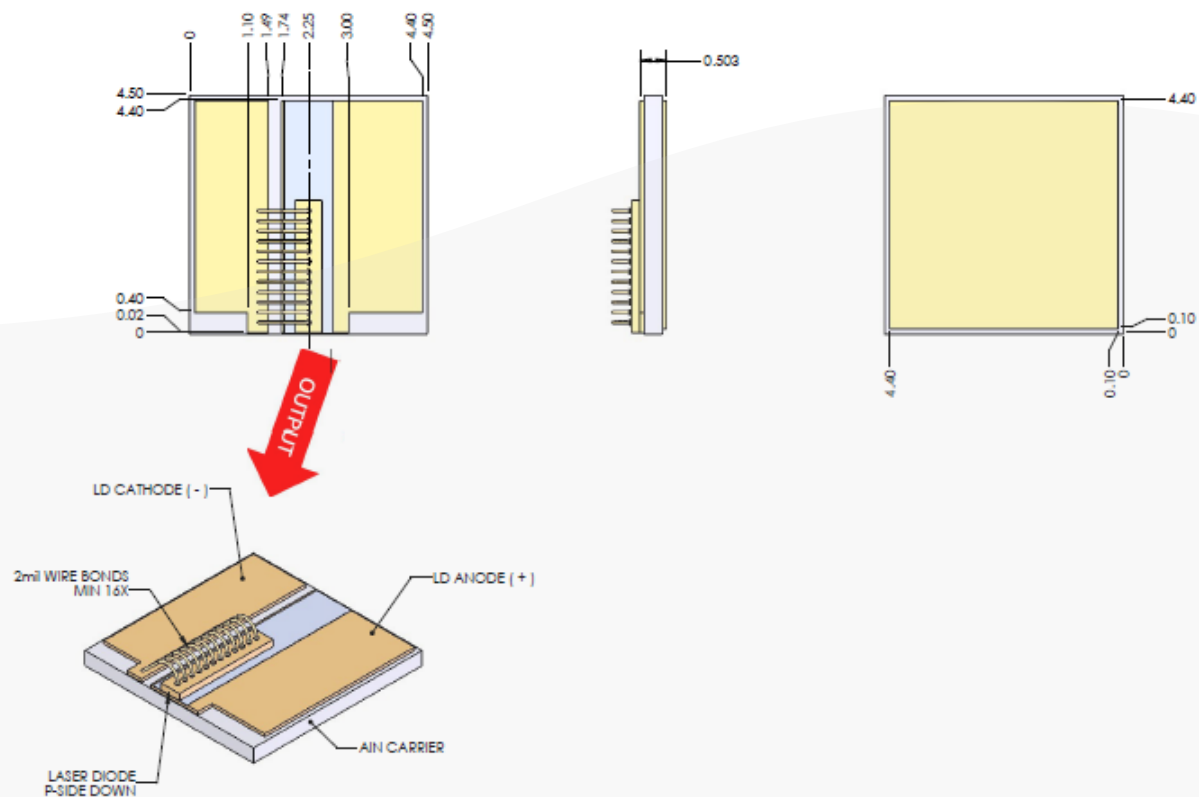
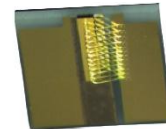
#### Typical ASE L-I-V Characteristics



# High Power RSOA Chip on Carriers



## Mechanical Drawing



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