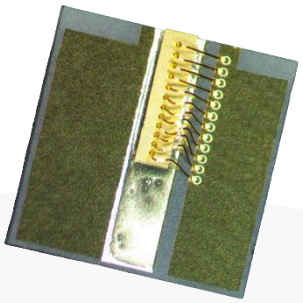
High Power RSOA Array Chip on Carrier

Part Number: COC-179



High Power 4-Channel RSOA Chip on Carrier
Single-Mode RSOA Array
CW Wavelength at 1550nm

Features

- High Output Power
- High Dynamic Range
- High Efficiency
- Standard Low-Cost Package

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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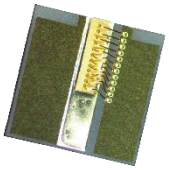
Specification

COC-179



Optical	Symbol	Typ.	Units
Center Wavelength	λ_c	1550	nm
ASE Output Power @1A* per channel	P_{out}	0.2	Watts
Aperture Width	AW	4	µm
Aperture Height	AH	1	µm
Number of Emitters		4	127µm pitch
3dB Bandwidth	BW	80	nm
Beam Exit Angle	θ_{EXT}	19.5	degree
Polarization Extinction Ratio	PER	18	dB
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 per channel	I_{op}	1	A
Operating Voltage	V_{op}	2	V
Mechanical		**Range**	**Units**
Chip Width		625	µm
Operating Temp.**		-20 to 75	°C
Storage Temp.		-40 to 85	°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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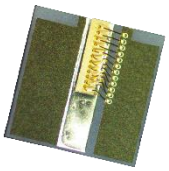
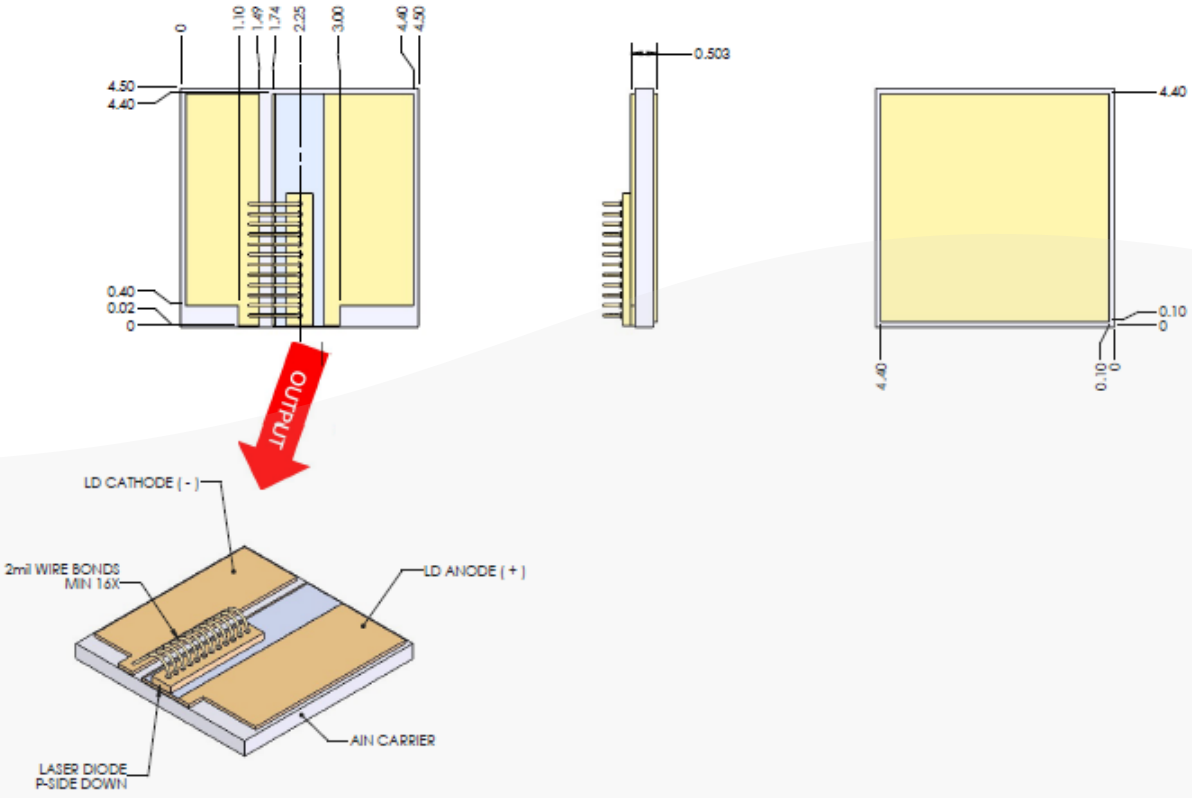
Mechanical Drawing





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