PI Sheet





Chip on Carrier

High Power SemiNex Lasers 12xx to 19xx nm Custom Wavelengths Available

- ApplicationsOEM MedicalDPSS pump source
- LiDAR
- Military / Aerospace

Features

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

SemiNex delivers the highest available power at infrared wavelengths between 13xx and 17xx nm. When necessary wavelengths between 13xx and 17xx nm. When necessary we will further optimize the design of our InP 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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PI Sheet

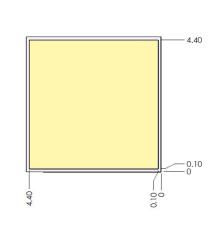


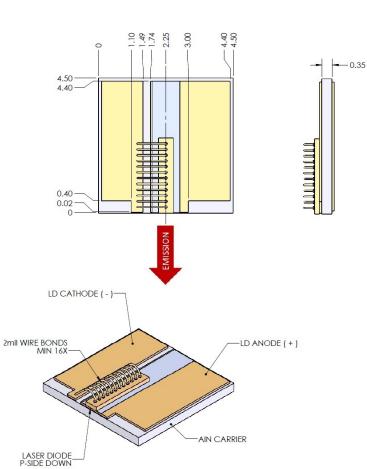




	Symbol	COC-107	Units
Optical			
Navelength	λ _c	1585	nm (±20)
Dutput Power (<10ns)	P。	30.00	watts (±10%)
Duput Power (150ns)	P	14.00	watts (±10%)
Chip Cavity Length	CL	2500	μm
Emitter Width	W	95	μm
Emitter Height	Н	1	μm
Spectral Width	δλ	15	nm 3dB
Slope Efficiency	η°	0.30	W/A
ast Axis Div.*	O_perp	30	deg FWHM
Slow Axis Div.	Θ_parallel	10	deg FWHM
Electrical			
Power Conversion Eff.	η	4	%
hreshold Current	I _{th}	0.7	A
Dperating Current (<10ns)	I _{op}	100	A
Dperating Current (150ns)	l _{op}	50	A
Dperating Voltage	V _{op}	7	V
Mechanical .			
Veight		0.05	g
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. **Specified operating conditions are based on 20C heat sink temperature. High temperature operation will reduce performance and MTTF. Unless otherwise indicated all values are nominal.





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