



Laser Diode Chip

High Power SemiNex Laser Diodes Multi Mode and Single Mode 12xx to 19xx nm Custom Wavelengths Available

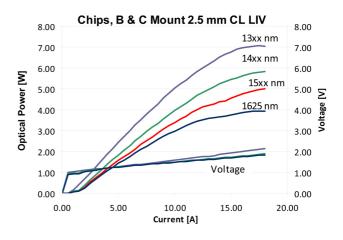
- Applications
 OEM Medical
- Consumer Medical
- ResearchDPSS pump sourceLiDAR
- Military / Aerospace

Features

- Cost effective
- High Output Power
- High Dynamic Range
 High Efficiency

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 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.





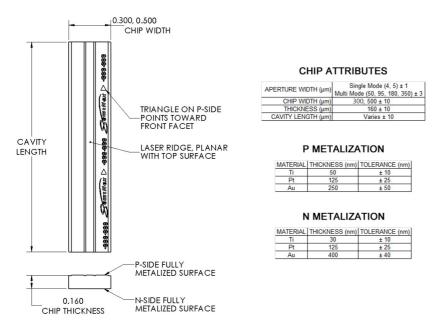


	Symbol	CHP-108	Units
Optical	Супьсі	OH -100	Office
Wavelength	λ _c	1470	nm (±20)
Output Power (CW)*	P _°	5.00	watts (±10%)
Chip Cavity Length	CL	2500	μm
Chip Width	W	500	μm
Emitter Width	W	95	μm
Emitter Height	Н	1	μm
Spectral Width	δλ	15	nm 3dB
Slope Efficiency	η∘	0.38	W/A
Fast Axis Div.	Θ_perp	28	deg FWHM
Slow Axis Div.	Θ_parallel	9	deg FWHM
Electrical			
Power Conversion Eff.	η	22	%
Threshold Current	I _{th}	0.5	A
Operating Current	l _{op}	13	A
Operating Voltage	V_{op}	1.7	V
Mechanical			
Weight		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 20°C heat sink temperature. High temperature operation will reduce performance and MTTF.

Unless otherwise indicated all values are nominal.



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