

## **4-pin Fiber Coupled**

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

- Applications

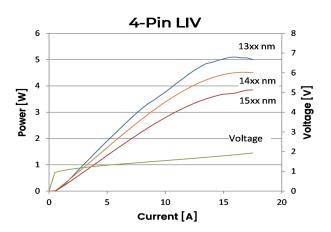
  OEM Medical
  DPSS pump source
- LiDAR .
- Free Space Communications .
- Military / Aerospace

## Features

- Cost effective •
- High Output Power High Dynamic Range
- High Efficiency Standard Low Cost Package •
- •
- Designed for Volume Applications •

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 SemiNex for additional details or to discuss your specific requirements.





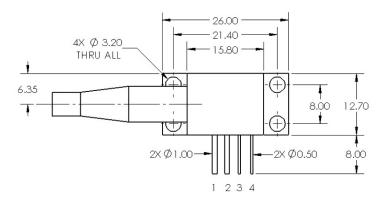


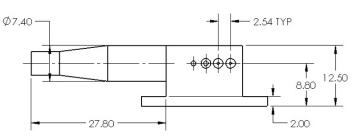




	Symbol	4PN-108	Units
Optical			
Wavelength	λ <sub>c</sub>	1550	nm (±20)
Output Power (CW)	P°	3.30	watts (±10%)
Spectral Width	δλ	10	nm 3dB
Slope Efficiency	η°	0.3	W/A
Optical Fiber Core Dia.	η°	105	μm
Optical Fiber NA		0.22	
Electrical			
Power Conversion Eff.	η	16.00	%
Threshold Current	I <sub>th</sub>	0.5	A
Operating Current	I <sub>op</sub>	12	A
Operating Voltage	V <sub>op</sub>	1.7	V
Lead Soldering Temp.	°C	250	°C
Mechanical			
Weight		25	g
Operating Temp.**		-40 to 60	°C
Storage Temp.		-40 to 80	°C
Fiber Length		1.5	meters
Connector		SMA905	
		PD Stand.	
Thermistor			
Thermistor Constant	β		β
Thermistor Resistance	R		K ohm

PLEASE NOTE: The 4 Pin laser package is not electrically isolated. The package body is the anode connection. Care should be taken in mounting and installation. 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 operature operation will reduce performance and MTTF. Unless otherwise indicated all values are nominal.





## PIN OUT: (FOR REFERENCE ONLY, REFER TO DOCUMENTATION SUBMITTED WITH PRODUCT FOR ACTUAL PIN OUT)

- 1.
- LD ANODE ( + ) LD CATHODE ( ) PD ( ) or THERMISTOR PD ( + ) or THERMISTOR 2. 3. 4.

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