

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.



2CM Packaged Laser Diode

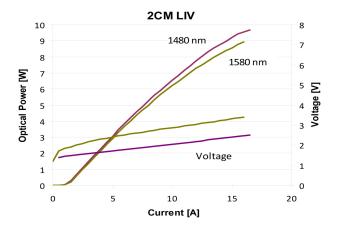
High Power Multi-Mode SemiNex Lasers 12xx to 19xx nm Custom Wavelengths Available Fiber Coupled

- Applications
 Professional Medical
 DPSS pump source
 LiDAR

- Free Space Communications
- Military / Aerospace

Features

- Two Laser Chip Package
 Cost effective fiber coupled design
- High Output Power
- High Dynamic Range
- High Efficiency Standard Low Cost Package





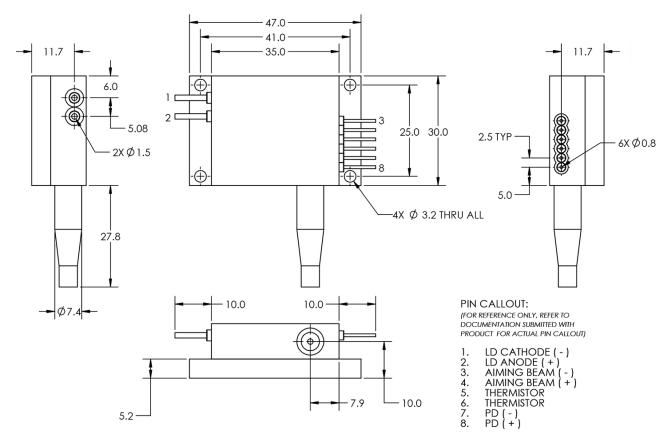


	Symbol	2CM-102	Units
Optical			
Center Wavelength	λ_{c}	1550	nm (±20)
Output Power (CW)	P∘	7.70	watts (±10%)
Spectral Width	δλ	10	nm 3dB
Slope Efficiency	η _°	0.4	W/A
Optical Fiber Core Dia.	η _°	200	μm
Optical Fiber NA		0.22	
Fiber Length		1	meters
Connector		SMA905	
Electrical			
Power Conversion Eff.	η	19.00	%
Threshold Current	I _{th}	0.5	A
Operating Current	I _{op}	12	A
Operating Voltage	V _{op}	3	V
Lead Soldering Temp.	°Ċ	250	°C
Aiming Beam			
Output Power	P _a	2	mW
Wavelength	λ_{a}	635	nm
Operating Current**	I _{op}	65	mA
Voltage Limit	V_{max}	2.3	V
Mechanical			
Weight		170	g
Operating Temp.**		-40 to 60	°C
Storage Temp.		-40 to 80	°C
Thermistor			
Thermistor Constant	β	3477	β
Thermistor Resistance	R	10000	K ohm

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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