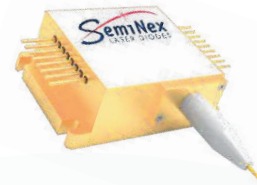


High Power Laser Diode 2CM Module



Part Number: 2CM-201

High Power 2CM Fiber Coupled Module
Multi-Mode Fabry-Perot
Detachable Fiber Available
CW Wavelength at 1470nm



Features

- Two Laser Chip Package
- Cost Effective Fiber Coupled Design
- High Output Power
- High Dynamic Range
- High Efficiency
- Standard Low-Cost Package
- Red Aiming Beam Included
- PD & Thermistor Included

Application

- Professional Medical
- DPSS Pump Source
- Defense / Aerospace



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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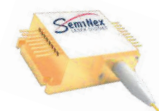
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High Power Laser Diode 2CM Module



Specification

2CM-201



Optical	Symbol	Typ.	Units
Center Wavelength	λ_c	1470	nm (± 20)
Output Power (CW)*	P_{out}	7.5	Watts ($\pm 10\%$)
Spectral Width FWHM	$\Delta\lambda$	10	nm
Slope Efficiency	η	0.55	W/A
Optical Fiber Core Dia.		200	μm
Optical Fiber NA		0.22	
Electrical	Symbol		Units
Power Conversion Eff.	η	22	%
Operating Current	I_{op}	13	A
Threshold Current	I_{TH}	1	A
Operating Voltage	V_{op}	2.9	V
Aiming Beam	Symbol		Units
Output Power	P_a	2	mW
Wavelength	λ_a	635	nm
Operating Current	I_{op}	45	mA
Voltage Limit	V_{max}	2.3	V
Mechanical			Units
Connector Type		SMA905	
Fiber Length		1.5	meters
Thermistor		Range	
Thermistor Constant		3477	b
Thermistor Resistance		10	K ohm
		Range	
Operating Temp.**		-40 to 60	$^{\circ}C$
Storage Temp.		-40 to 80	$^{\circ}C$

*Specified values are rated at a constant heat sink temperature of 20 $^{\circ}C$.

**High temperature operation will reduce performance and MTTF.
Unless otherwise indicated all values are nominal.

*Detachable Fiber

Part Number	Description
2CMDf-201	2CM-201 with detachable fiber

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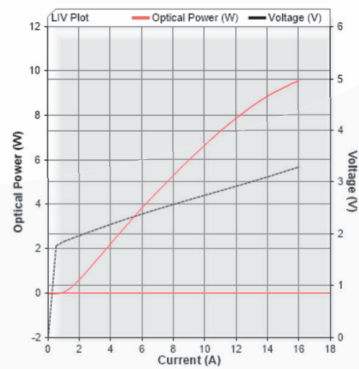
High Power Laser Diode 2CM Module



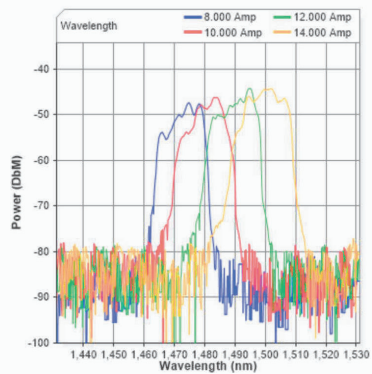
SemiNex Laser Diodes 2CM-201

Graphs & Data

Typical 2CM L-I-V Characteristics



Typical 2CM Output Spectrum

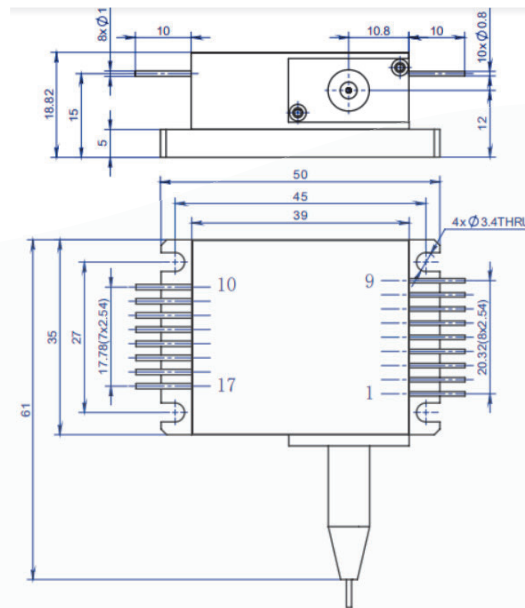
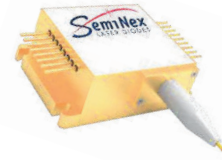


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High Power Laser Diode 2CM Module



Mechanical Drawing Part Number: 2CM-201



PD (+)	#6
PD (-)	#7
Thermistor	#8
Thermistor	#9
LD (+)	#10
LD (-)	#11
Red Aiming Beam (+)	#16
Red Aiming Beam (-)	#17

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