

Part Number: 4CM-204

High Power 4CM Fiber Coupled Module Multi-Mode Fabry-Perot Detachable Fiber Available Wavelength at 1470nm



Features

- High Output Power
- High Dynamic Range
- High Efficiency
- 4CM Fiber Coupled Module
- Cost Effective
- · Red Aiming Beam
- Thermistor
- Custom Wavelengths Available

Application

Professional Medical



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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Specification

4CM-204



Optical	Symbol	Тур.	Units
Center Wavelength	λ_{c}	1470	nm (±20)
Output Power (CW)*	P _{out}	15	Watts (±10%)
Spectral Width FWHM	Δλ	20	nm
Slope Efficiency	η	1.4	W/A
Optical Fiber Core Dia.		400	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}	5.4	V
Aiming Beam	Symbol		Units
Output Power	P _a	2	mW
Wavelength	λ_{a}	635	nm
Operating Current	I _{op}	50	mA
Voltage Limit	V _{max}	2.2	V
Mechanical			Units
Connector Type		SMA905	
Fiber Length		1.5	meters
Thermistor			
Thermistor Constant		3477	β
Thermistor Resistance		10	K ohm
		Range	
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.

**High temperature operation will reduce performance and MTTF.

Unless otherwise indicated all values are nominal.

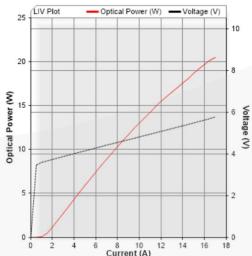
*Detachable Fiber

Part Number	Description
4CMDF-204	4CM-204 with detachable fiber

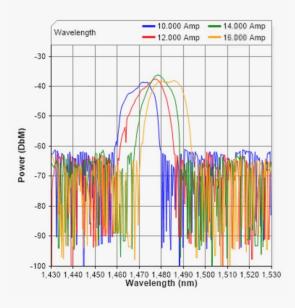


SemiNex Laser Diodes 4CM-204 Graphs & Data

Typical 4CM L-I-V Characteristics



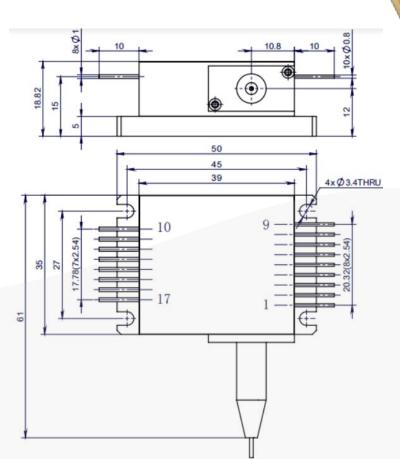
Typical 4CM Output Spectrum



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Mechanical Drawing Part Number: 4CM-204





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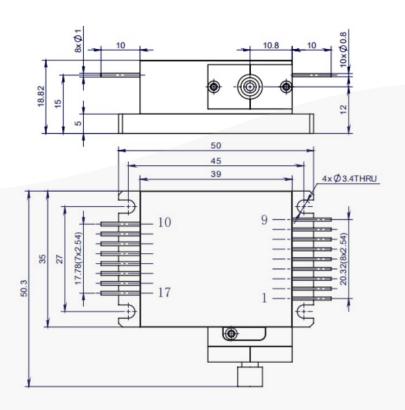


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Mechanical Drawing
Part Number: 4CMDF-204





	4CM pin
PD (+)	#6
PD (-)	#7
Thermistor	#8
Thermistor	#9
LD (+)	#10
LD (-)	#15
Red Aiming Beam (+)	#16
Red Aiming Beam (-)	#17

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