

Part Number: 2CM-401

High Power 2CM Fiber Coupled Module Multi-Mode Fabry-Perot Detachable Fiber Available CW Wavelength at 1480nm



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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Specification

2CM-401



Optical	Symbol	Тур.	Units
Center Wavelength	λ_{c}	1480	nm (±20)
Output Power (CW)*	P _{out}	9	Watts (±10%)
Spectral Width FWHM	Δλ	10	nm
Slope Efficiency	η	0.55	W/A
Optical Fiber Core Dia.		400	μm
Optical Fiber NA		0.22	
Electrical	Symbol		Units
Power Conversion Eff.	η	20	%
Operating Current	I _{op}	17	А
Threshold Current	I _{TH}	2	А
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}	65	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	°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

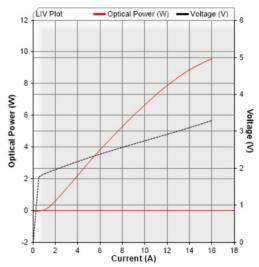
Part Number	Description	
2CMDF-401	2CM-401 with detachable fiber	



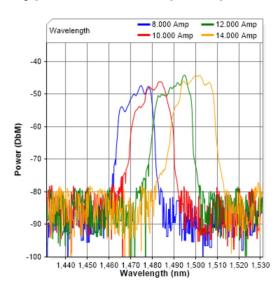
SemiNex Laser Diodes 2CM-401 Graphs & Data



Typical 2CM L-I-V Characteristics



Typical 2CM Output Spectrum

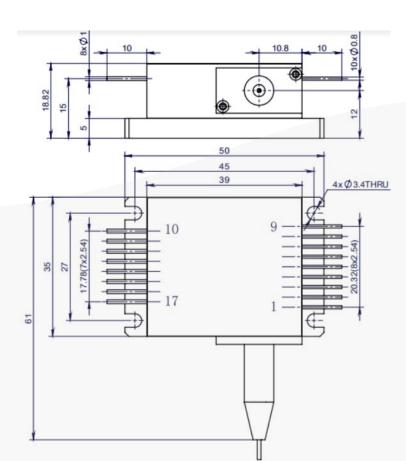


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Mechanical Drawing
Part Number: 2CM-401





	2CM
PD (+)	#6
PD (-)	#7
Thermistor	#8
Thermistor	#9
LD (+)	#10
LD (-)	#11
Red Aiming Beam (+)	#16
Red Aiming Beam (-)	#17

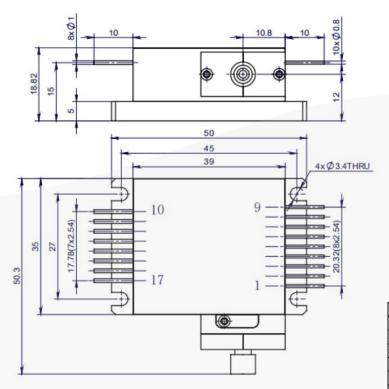
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Mechanical Drawing
Part Number: 2CMDF-401





	2CM pin
PD (+)	#6
PD (-)	#7
Thermistor	#8
Thermistor	#9
LD (+)	#10
LD (-)	#11
Red Aiming Beam (+)	#16
Red Aiming Beam (-)	#17

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