

Part Number: YCMDF-101

High Power YCMDF Detachable Fiber Module Multi-Mode Fabry-Perot CW Wavelength at 1940nm

Features

- 10W 1940nm
- Detachable Fiber
- 10W @ 4.5A
- Cost Effective Fiber Coupled Design
- High Output Power
- High Dynamic Range
- High Efficiency
- Aiming Beam
- PD & Thermistor Included

Application

- Professional Medical
- 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

YCMDF-101



Optical	Symbol	Тур.	Units
Center Wavelength	λ _c	1940	nm (±20)
Output Power (CW)*	P _{out}	10	Watts (±10%)
Spectral Width FWHM	Δλ	10	nm
Slope Efficiency	η	2	W/A
Detachable Optical Fiber Core Dia.		400	μm
Optical Fiber NA		0.22	
Electrical	Symbol	Тур.	Units
Power Conversion Eff.	η	14	%
Operating Current	I _{op}	4.5	А
Threshold Current	Ітн	0.3	А
Operating Voltage	V _{op}	16	V
Optical Fiber (Optional)			Units
Connector Type		SMA	
Detachable Fiber Length		1	meters
Thermistor	$\Delta I I$		
Thermistor Constant	β	3477	β
Thermistor Resistance	R	10	K ohm
Aiming Beam			
Output Power	Pa	2	mW
Wav <mark>e</mark> length	λа	635+-10	Nm
Voltage	Va	2.3	V
Current	la	45	mA
		Range	
Operating Temp.**		-20 to 60	°C
Storage Temp.		-40 to 80	°C

^{**}High temperature operation will reduce performance and MTTF.

Unless otherwise indicated all values are nominal.

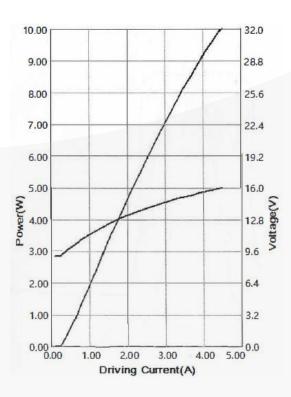


SemiNex Laser Diodes 2CM-201

Graphs & Data

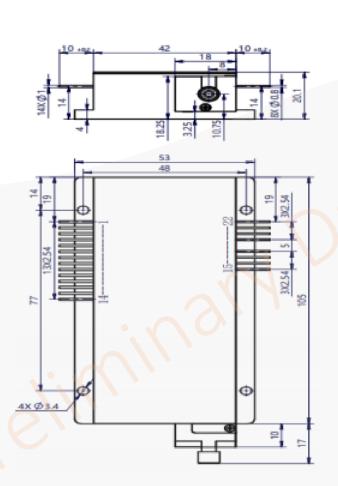
Typical YCM Detachable Fiber

L-I-V Characteristics





Mechanical Drawing





-		-	
Pin	Function	Pin	Function
1	LD (+)	12	
2	LD (-)	13	Aiming Beam(+)
3		14	Aiming Beam(-)
4		15	FCD LED(-)
5		16	FCD LED(+)
5			&FCD PD(N)
6		17	FCD PD(P)
7		18	
8		19	-
9		20	-
10		21	Thermistor
11		22	Thermistor

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