

High Power Laser Diode YCM Detachable Fiber



Part Number: YCMDF-101

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

Features

- 10W 1940nm
- Detachable Fiber
- 10W @ 6A Maximum Output Power
- 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.

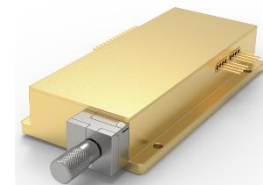
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Specification

YCMDf-101

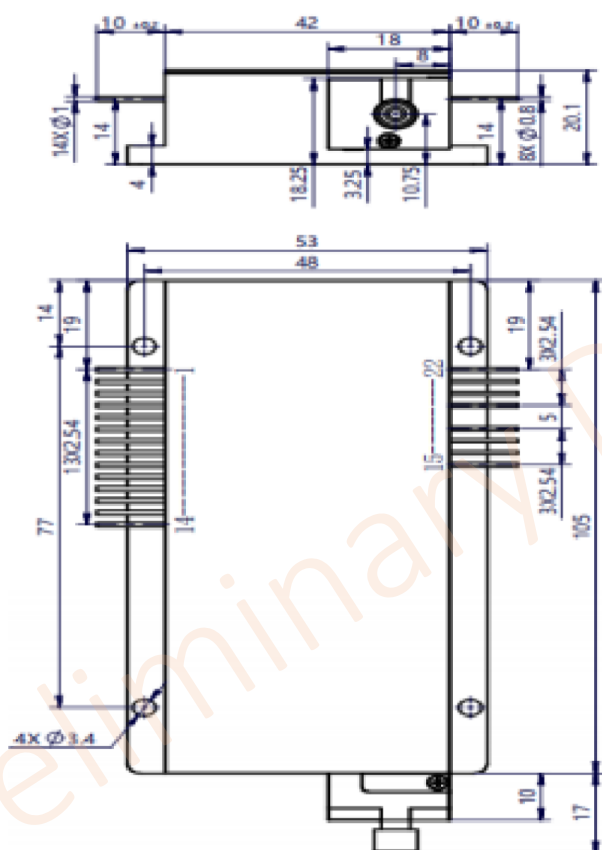


Optical	Symbol	Typ.	Units
Center Wavelength	λ_c	1940	nm (± 20)
Output Power (CW)*	P_{out}	10	Watts ($\pm 10\%$)
Spectral Width FWHM	$\Delta\lambda$	10	nm
Slope Efficiency	η	1.1	W/A
Detachable Optical Fiber Core Dia.		400	μm
Optical Fiber NA		0.22	
Electrical	Symbol	Typ.	Units
Power Conversion Eff.	η	11.4	%
Operating Current	I_{op}	5.5	A
Threshold Current	I_{TH}	0.3	A
Operating Voltage	V_{op}	16	V
Optical Fiber (Optional)			Units
Connector Type		SMA	
Detachable Fiber Length		1	meters
Thermistor			
Thermistor Constant	β	3477	β
Thermistor Resistance	R	10	K ohm
Aiming Beam			
Output Power	P_a	1	mW
Wavelength	λ_a	635 \pm 10	Nm
Voltage	V_a	2.3	V
Current	I_a	45	mA
		Range	
Operating Temp.**		-20 to 60	$^{\circ}C$
Storage Temp.		-40 to 80	$^{\circ}C$

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



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



**VISIBLE / INVISIBLE LASER RADIATION
AVOID DIRECT EXPOSURE TO BEAM**



**CLASS IIIb and IV LASER
PRODUCTS**

This product complies with 21CFR1040 as applicable. Laser aperture is on the test station. Laser radiation from this product is considered an acute hazard to the skin and eyes.