

# High Power Laser Diode XCMDF Detachable Fiber



## Part Number: XCMDF-104

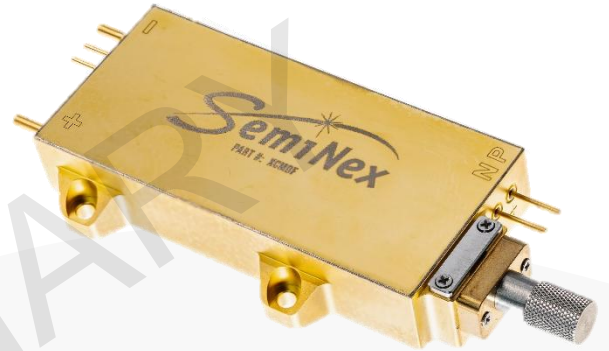
High Power XCMDF Detachable Fiber Module  
Multi-Mode Fabry-Perot  
CW Wavelength at 1726nm

### Features

- 100W 1726nm
- Detachable Fiber
- Cost Effective Fiber Coupled Design
- High Output Power
- High Dynamic Range
- High Efficiency
- PD & Thermistor Included
- Red Aiming Beam Optional

### 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.

# High Power Laser Diode XCM Detachable Fiber



## Specification

XCMDF-104



Optical	Symbol	Typ.	Units
Center Wavelength	$\lambda_c$	1726	nm ( $\pm 20$ )
Output Power (CW)*	$P_{out}$	100	Watts ( $\pm 10\%$ )
Spectral Width FWHM	$\Delta\lambda$	10	nm
Detachable Optical Fiber Core Dia.		600	$\mu m$
Optical Fiber NA		0.22	
Electrical	Symbol	Typ.	Units
Power Conversion Eff.	$\eta$	14	%
Operating Current	$I_{op}$	24	A
Threshold Current	$I_{TH}$	1.5	A
Operating Voltage	$V_{op}$	30	V
Optical Fiber (Optional)			Units
Connector Type		SMA	
Detachable Fiber Length		1	meters
Thermistor			
Thermistor Constant	$\beta$	3477	$\beta$
Thermistor Resistance	R	10	K ohm
Red Aiming Beam			
Output Power	$P_a$	2	mW
Wavelength	$\lambda_a$	635+/-10	nm
Voltage	$V_a$	2.1	V
Current	$I_a$	175	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.

Suffix	Description
-004	635nm WL Red Aiming Beam Option

PRELIMINARY

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