

#### Part Number: 2CM-104

High Power 2CM Fiber Coupled Module Multi-Mode Fabry-Perot CW Wavelength at 1550nm

#### **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**

- 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.





## Specification

2CM-104



Optical	Symbol	Тур.	Units
Center Wavelength	$\lambda_{c}$	1550	nm (±20)
Output Power (CW)*	P <sub>out</sub>	5.5	Watts (±10%)
Spectral Width FWHM	Δλ	10	nm
Slope Efficiency	η	0.52	W/A
Optical Fiber Core Dia.		105	μm
Optical Fiber NA		0.22	
Electrical	Symbol		Units
Power Conversion Eff.	η	16	%
Operating Current	lop	10.5	А
Threshold Current	I <sub>TH</sub>	0.5	А
Operating Voltage	Vop	3.2	V
Aiming Beam	Symbol		Units
Output Power	P <sub>a</sub>	2	mW
Wavelength	$\lambda_{a}$	635	nm
Operating Current	lop	65	mA
Voltage Limit	V <sub>max</sub>	2.3	V
Mechanical			Units
Connector Type		SMA905	
Fiber Length		1	meters
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.

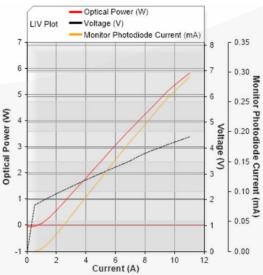
Unless otherwise indicated all values are nominal.



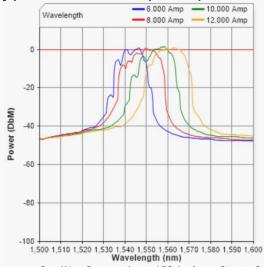
## SemiNex Laser Diodes 2CM-104 Graphs & Data



#### Typical 2CM L-I-V Characteristics



#### Typical 2CM Output Spectrum

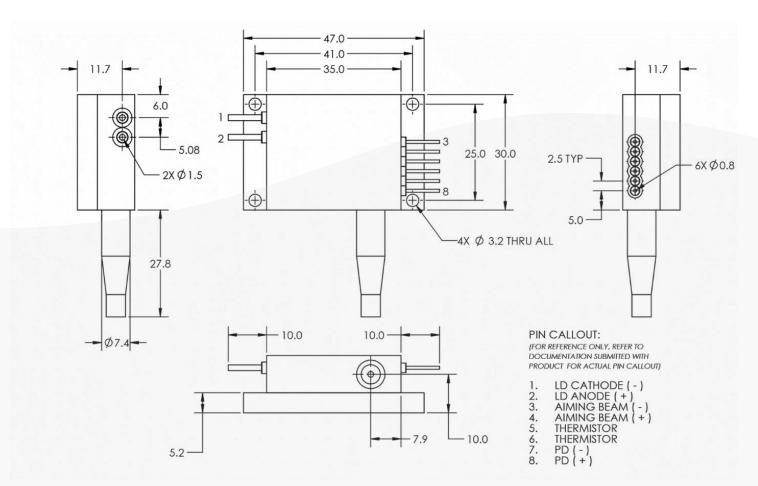


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#### **Mechanical Drawing**





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