

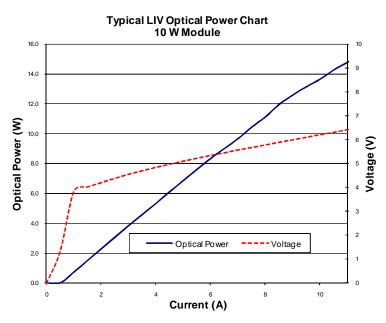
SemiNex delivers the highest available CW power at infrared wavelengths. SemiNex will optimize the design of its laser chips to meet customers' optical and electrical performance specifications. Diodes are mounted and tested to meet custom applications. Typical results and packaging options are shown below. Contact SemiNex for additional details or to discuss your application.

Key Features

- High output power
- · High dynamic power range
- High efficiency
- · Custom packaging

Applications

- Medical laser equipment
- LIDAR
- Free Space Optical Communication
- DPSS pump lasers
- Military / Aerospace

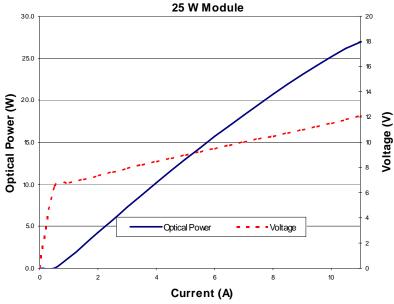




High Power Multi-Mode SemiNex Lasers 10 to 25 Watts of CW Power 1470, 1532, 1550 nm Wavelength Multi-Chip Module

	Symbol	турісат	Units
Optical			
Output Power (CW)	P_o	10 - 25	watts
Center Wavelength Range	λ_{c}	1470, 1532, 1550	nm
Spectral Width	Δλ	15	nm 3dB
Optical Fiber Core Diameter		375	μm
Optical Fiber NA		0.22	
Wavelength Temp. Coeff.	λ_{coef}	0.7	nm/C
Electrical			
Threshold Current	I_{th}	0.4 - 0.7	Α
Operating Current	I_{op}	8 - 11	Α
Operating Voltage	V_{op}	6 or 14	V
Series Resistance	R_s	0.25 or 0.5	ohm

Typical LIV Optical Power Chart



SemiNex Corporation

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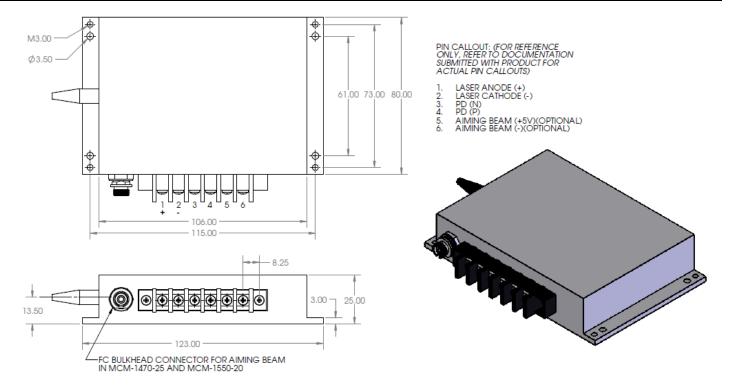


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	Symbol	MCM-1470-10	MCM-1470-15	MCM-1470-20	MCM-1470-25	MCM-1550-10	MCM-1550-20	Units
Optical								
Output power (CW)	Po	10	15	20	25	10	20	watts
Center Wavelength	λ_{c}	1470	1470	1470	1470	1550	1550	nm
Spectral Width	Δλ	10	10	10	10	10	10	nm 3dB
Slope Efficiency	η_{o}	1.4	2	2.1	3	2	2	W/A
Optical Fiber Core Diameter		375	375	375	375	375	375	μm
Optical Fiber NA		0.22	0.22	0.22	0.22	0.22	0.22	
Photodiode Current	I_{m}	1.25	1.25	1.25	1.25	1.25	1.25	mA
Electrical								
Power conversion Efficiency	η	0.22	0.2	0.19	0.17	0.15	0.15	W/W
Threshold Current	I_{th}	0.5	0.5	0.5	0.5	0.7	0.7	Α
Operating Current	I_{op}	7	10.5	9.6	11	9.5	11	Α
Operating Voltage	V_{op}	6	7.5	11.4	12	7	14	V
Series Resistance	R_s	0.30	0.30	0.55	0.55	0.30	0.55	ohm
Lead Soldering Temperature		250	250	250	250	250	250	C
Aiming Beam								
Output Power	P_a	>2	>2	>2	>2	>2	>2	mW
Wavelength	λ_{a}	650 +/- 10	650 +/- 10	650 +/- 10	650 +/- 10	650 +/- 10	650 +/- 10	nm



NOTE: Dimensions are in mm

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