



15 Pin Fiber Coupled Laser

High Power Multi-Mode SemiNex Lasers 6.0 Watts of CW Power 1470, 1550 nm Wavelengths Custom Wavelengths Available

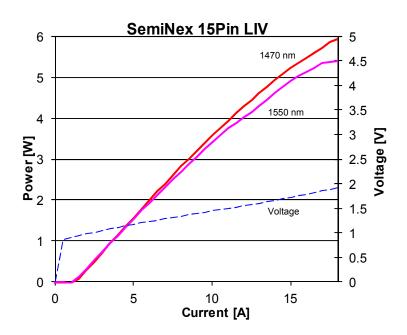
Features

- High output power
- High dynamic power range
- High efficiency
- Standard low cost package

Applications

- Medical laser equipment
- LIDAR
- Free space optical communication
- DPSS pump lasers
- Military / Aerospace

SemiNex delivers the highest available power at infrared wavelengths between 13xx and 17xx nm. When necessary we will further optimize the design of our InP 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





SemiNex Corporation ● 100 Corporate Place ● Peabody, MA 01960 ● 978-326-7700 ● Email: info@seminex.com ● www.seminex.com





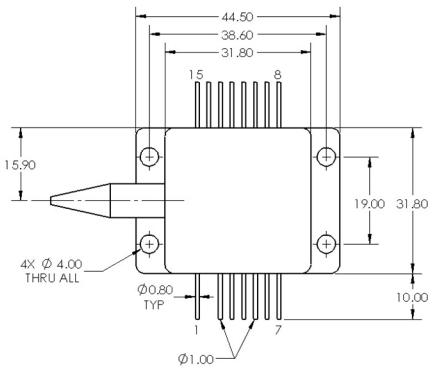
	Symbol	15P-101	15P-109	15P-110	15P-111	Units
Optical						
Wavelength*	λ _c	1470	1480	1570	1580	nm (+/- 20)
Output Power (CW)	Po	5.4	5.9	4.9	5.2	watts
Spectral Width	Δλ	10	10	10	10	nm 3dB
Slope Efficiency	η _o	0.37	0.30	0.34	0.34	W/A
Optical Fiber Core Dia.		200	200	200	200	μm
Optical Fiber NA		0.22	0.22	0.22	0.22	
Electrical						
Power conversion Eff.	η	0.21	0.15	0.19	0.14	
Threshold Current	l _{th}	0.7	0.7	0.7	0.7	А
Operating Current	I _{op}	16	20	15	19	А
Operating Voltage	V _{op}	1.6	2.0	1.7	1.9	V
Series Resistance	Rs	0.06	0.06	0.06	0.06	ohm
Lead Soldering Temp.	°C	250	250	250	250	°C
Aiming Beam						
Output Power	Pa	>2				mW
Wavelength	λ _a	650 +/- 10				nm
Operating Current**	I _{op}	22 to 25				mA
Voltage Limit	V _{max}	2.2				V
Thermistor						
Resistance	R	10 +/- 5% @ 25°C				K ohm
Thermistor Constant	β	3477 +/- 3%			β	
TEC						
TEC Voltage	V	9.8	No	9.8		V
TEC Current	А	6	No	6		А
Mechanical						
Weight		99.5	82.0	99.5	82.0	grams
Operating Temp.		10 to 30				°C
Storage Temp.		-20 to 80 °C				
Fiber Length		1.5 meters				
Connector		SMA-905				

Specified values are rated at a constant heat sink temperature of 20°C **Aiming beam is current driven



15 Pin Fiber Module





5.08

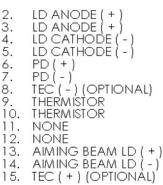
Ø7.30

2.00

12.35 t

PIN OUT: (FOR REFERENCE ONLY, REFER TO DOCUMENTATION SUBMITTED WITH PRODUCT FOR ACTUAL PIN OUT

1. CASE



15.



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2.54 TYP

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18.00

13.00