



14Pin DF

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

Features

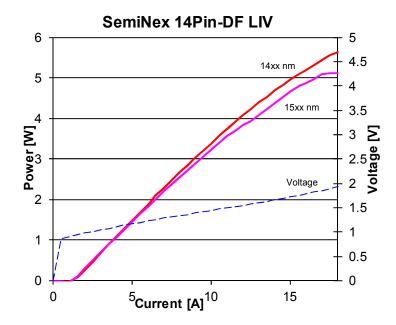
- · High output power
- High dynamic power range
- High efficiency
- Standard Low Cost Package

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







14Pin DF

Symbol

14D-101



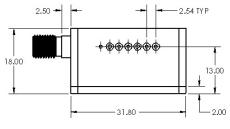


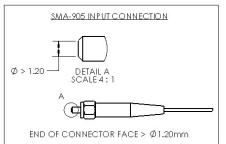
	Symbol	14P-101	Units
Optical			
Center Wavelength	λ_{c}	1475	nm
Output power (CW)	P_{o}	5.2	watts
Spectral Width	Δλ	10	nm 3dB
Slope Efficiency	η_{o}	0.35	W/A
Electrical			
Power conversion Efficiency	η	0.19	
Threshold Current	I_{th}	0.7	Α
Operating Current (Max)*	I_{op}	17	Α
Operating Voltage	V_{op}	1.6	V
Series Resistance	R_s	0.06	ohm
Lead Soldering Temperature	°C	250	°C
Aiming Beam			
Output Power	P_a	>2	mW
Wavelength	λ_a	650 +/- 10	nm
Thermistor			
Resistance	R	10 +/- 5% @ 25°C	K ohm
Thermistor Constant	β	3477 +/- 3%	β
TEC (Optional)			
TEC Voltage	V	9.8	V
TEC Current	Α	6	Α

Specified values are rated at constant heat sink temperature of 20°C.

Note: 14-Pin requires use of $200\mu m,\,0.22NA$ fiber with SMA905 connector, with controlled length, see physical dimensions for specs.

*Driving beyond stated current will damage unit.





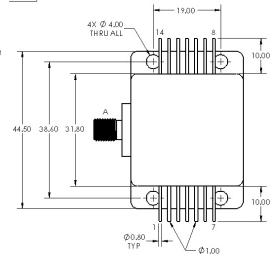
PIN OUT: (FOR REFERENCE ONLY, REFER TO DOCUMENT ATION SUBMITTED WITH PRODUCT FOR ACTUAL PIN OUT)

SMA-905 INPUT

CASE LD ANODE (+) LD ANODE (+) LD CATHODE (-) LD CATHODE (-) 1. 2. 3. 4. 5.

5. 6. 7. 8. 9. PD (+)
PD (+)
TEC (-) (OPTIONAL)
THERMISTOR
THERMISTOR

NONE
AIMING BEAM LD (+)
AIMING BEAM LD (-)
TEC (+) (OPTIONAL)



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