High Power Laser Diode 14BF Fiber Module



Part Number: 14BF-105

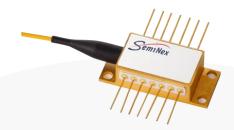
High Power 14-Pin Butterfly Fiber Coupled Module Single-Mode Fabry-Perot CW Wavelength at 1550nm

Features

- High Output Power
- High Dynamic Range
- High Efficiency
- 14BF Fiber Coupled Module
- Cost Effective

Application

• Optical Communications





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

14BF-105



Optical	Symbol	Тур.	Units
Center Wavelength	λ _c	1550	nm (±20)
Output Power (CW)*	Pout	0.2	watts (±10%)
Spectral Width FWHM	Δλ	10	nm
Slope Efficiency	η	0.2	W/A
Optical Fiber Core Dia.		9	μm
Optical Fiber NA		SMF-28	
Electrical	Symbol		Units
Power Conversion Eff.	η	10	%
Operating Current	lop	1	A
Threshold Current	Ітн	0.05	A
Operating Voltage	V _{op}	2.2	V
Mechanical	Symbol		Units
Connector Type		FC/PC	
Fiber Length		1	meters
Pinout Type		Type 1	
Thermistor			
Thermistor Constant	β	3950	β
Thermistor Resistance	R	10	K ohm
		Range	
Operating Temp.**		-40 to 60	°C
Storage Temp.		-40 to 80	°C

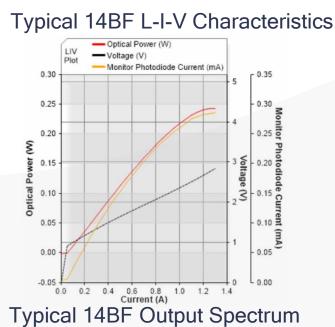
*Specified values are rated at a constant heat sink temperature of 20°C. **High temperature operation will reduce performance and MTTF. Unless otherwise indicated all values are nominal.

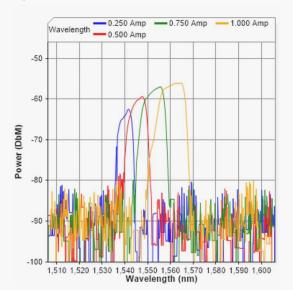
High Power Laser Diode 14BF Fiber Module



SemiNex Laser Diodes 14BF-105

Graphs & Data





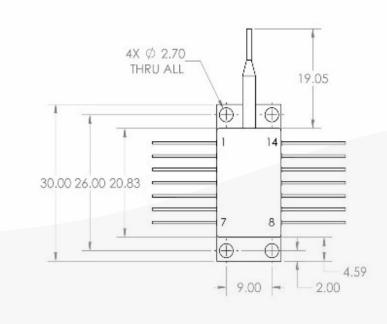


High Power Laser Diode 14BF Fiber Module

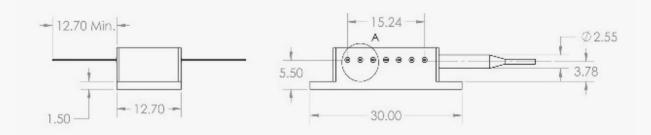


Mechanical Drawing





Type 1		
Pin	Function	
1	TEC anode(+)	
2	thermistor	
3	PD anode(+)(optional)	
4	PD cathode(-) (optional	
5	thermistor	
6,7,8,9,12	no connection	
10	laser anode(+)	
11	laser cathode(-)	
13	case ground	
14	TEC cathode(-)	



All statements, technical information and recommendations related to the product herein are based upon information believed to be reliable or accurate. The accuracy or completeness herein is not guaranteed, and no responsibility is assumed for any inaccuracies. The user assumes all risks and liability whatsoever in connection with the use of a product or its application. SemiNex Corporation reserves the right to change at any time without notice the design, specification, deduction, fit or form of its described herein, including withdrawal at any time of a product offered for sale herein. Users are encouraged to visit www.seminex.com for the latest data. SemiNex Corporation makes no representations that the products herein are free from any intellectual property claims of others. Please contact SemiNex for more information. 2024 SemiNex Corporation

