High Power Laser Diode 14BF Fiber Module



Part Number: 14BF-106

High Power 14-Pin Butterfly Fiber Coupled Module Single-Mode Fabry-Perot CW Wavelength at 1650nm



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-106



Optical	Symbol	Тур.	Units
Center Wavelength	λ _c	1650	nm (±20)
Output Power (CW)*	Pout	0.18	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	9	%
Operating Current	lop	1	А
Threshold Current	Ітн	0.05	А
Operating Voltage	V _{op}	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

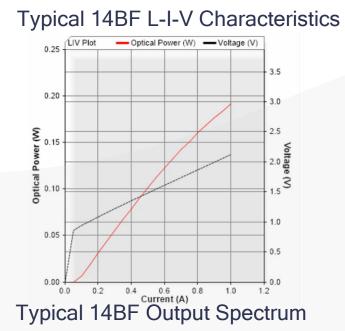
*Specified values are rated at a constant heat sink temperature of 20°C. **High temperature operation will reduce performance and MTTF. Unless otherwise indicated all values are nominal.

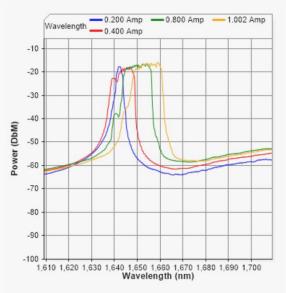
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SemiNex Laser Diodes 14BF-106

Graphs & Data



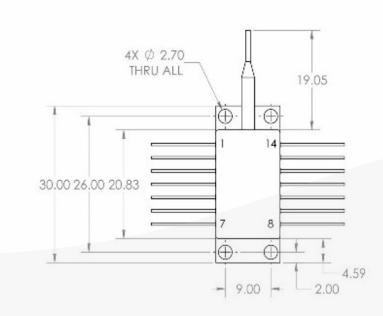


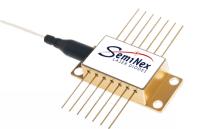


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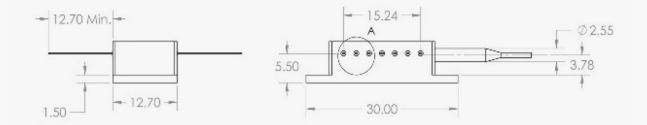


Mechanical Drawing





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(-)		



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