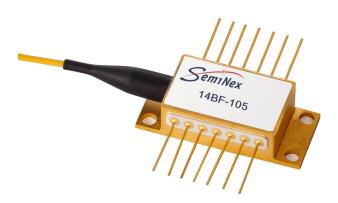
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14-Pin BF Single-Mode

High Power Single Mode SemiNex Lasers 12xx to 19xx nm Custom Wavelengths Available

Applications • OTDR

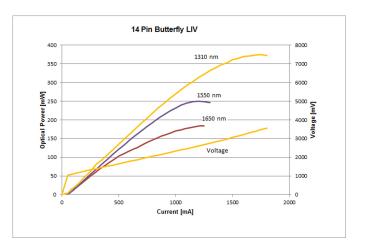
- LiDAR
- Free Space CommunicationsNetwork Test equipment

Features

- High Output Power High Dynamic Range
- High EfficiencyStandard Low Cost Package

SemiNex delivers the highest available power at infrared wavelengths between 12xx and 19xx nm. When necessary wavelengths between 12xx and 19xx 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. requirements.





11/30/23, 4:03 PM PI Sheet

11/30/23, 4:03 PM PI Sheet



14 Pin Single Mode Butterfly

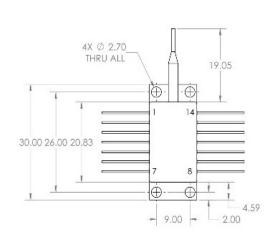


	Symbol	14BF-102	Units
Optical			
Center Wavelength	$\lambda_{_{ m C}}$	1550	nm (±20)
Output Power (CW)	P∘	0.23	watts (±10%)
Spectral Width	δλ	10	nm 3dB
Slope Efficiency	η∘	0.2	W/A
FBG		No	
Electrical			
Power Conversion Eff.	η	10.00	%
Threshold Current	I _{th}	0.055	A
Operating Current	I _{op}	0.95	A
Operating Voltage	V_{op}	2.2	V
Lead Soldering Temp.	°C	250	°C
Mechanical			
Weight		88	g
Operating Temp.**		-40 to 60	°C
Storage Temp.		-40 to 80	°C
Fiber Length		1	meters
Connector		FC/PC	
Pinout Type		F-series	
Thermistor	·	·	·
Thermistor Constant	β	3950	β
Thermistor Resistance	R	10000	K ohm

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

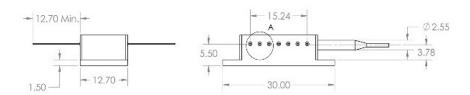
**Specified operating conditions are based on 20C heat sink temperature. High temperature operation will reduce performance and MTTF.

Unless otherwise indicated all values are nominal.



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





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