

14-Pin BF Single-Mode w/TEC

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 Efficiency Standard Low Cost Package . • Thermal Electric Cooler

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.

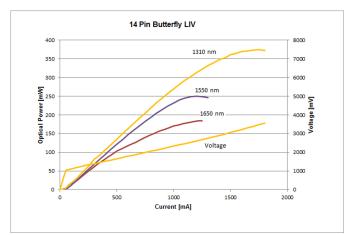
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DIODES

SemiNex

14BF-105





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14 Pin Single Mode Butterfly



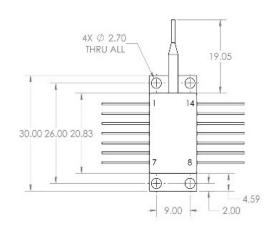


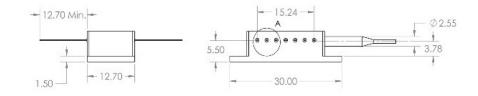
	Symbol	14BF-106	Units
Optical			
Center Wavelength	λ _c	1655	nm (±20)
Output Power (CW)	P	0.18	watts (±10%)
Spectral Width	δλ	10	nm 3dB
Slope Efficiency	η.	0.2	W/A
FBG		No	
Electrical			
Power Conversion Eff.	η	9.00	%
Threshold Current	I _{th}	0.05	A
Operating Current	I _{op}	1	A
Operating Voltage	V _{op}	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	Kohm
TEC			
TEC Voltage (Vmax)		3.2	V
TEC Current (Imax)		2	A

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.

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(-)	

DANGER
VISIBLE / INVISIBLE LASER RADIATIO
CLASS IIIb and IV LASER PRODUCTS
This product complies with 21CFR1040 as applicable Laser aperture is on the test station. Laser radiation from this product is considered an acute hazard to the skin and eyes.





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

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