



14 Pin Single Mode Butterfly

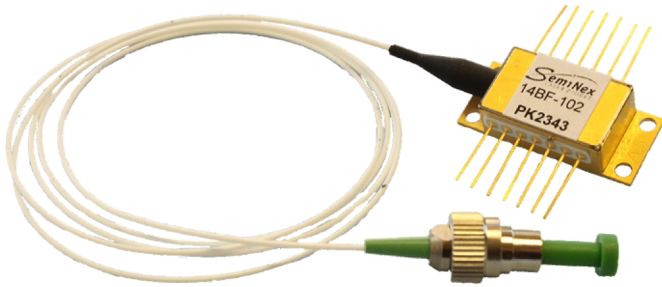
High Power Single Mode SemiNex Lasers
 Up to 300 mW of CW power
 1310, 1550, 1560, and 1655 nm
 Custom Wavelengths Available

Features

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

Applications

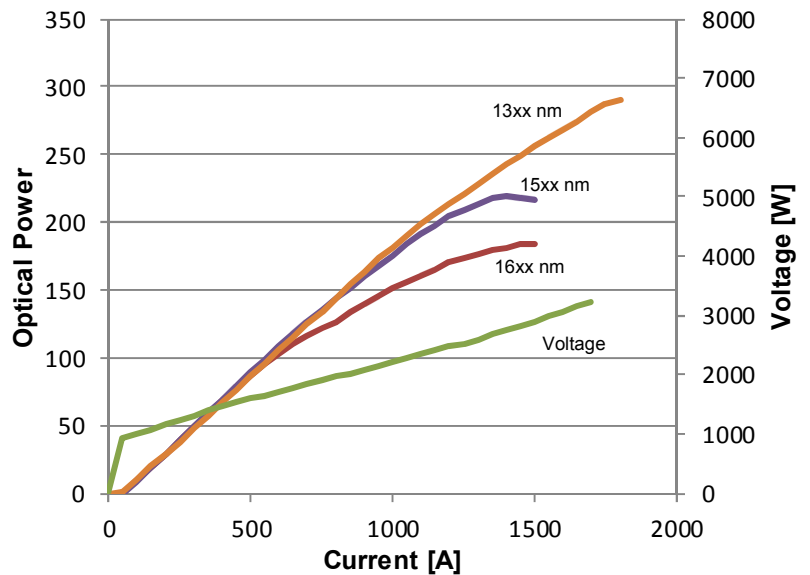
- LIDAR
- Free Space Optical Communication
- OTDR
- Military / Aerospace

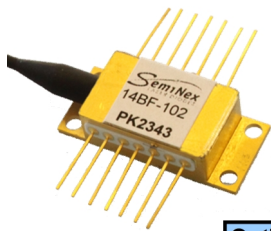


SemiNex delivers the highest available power at infrared wavelengths between 13xx and 17xx nm. When necessary we will further optimize the design of our InP laser chips to meet our customers' specific optical and electrical performance needs. Diodes, bars and packages are tested to meet customer and market performance demands. Typical results and packaging options are shown. Contact SemiNex for additional details or to discuss your specific requirements

Preliminary

SemiNex LIV 14 Pin BF





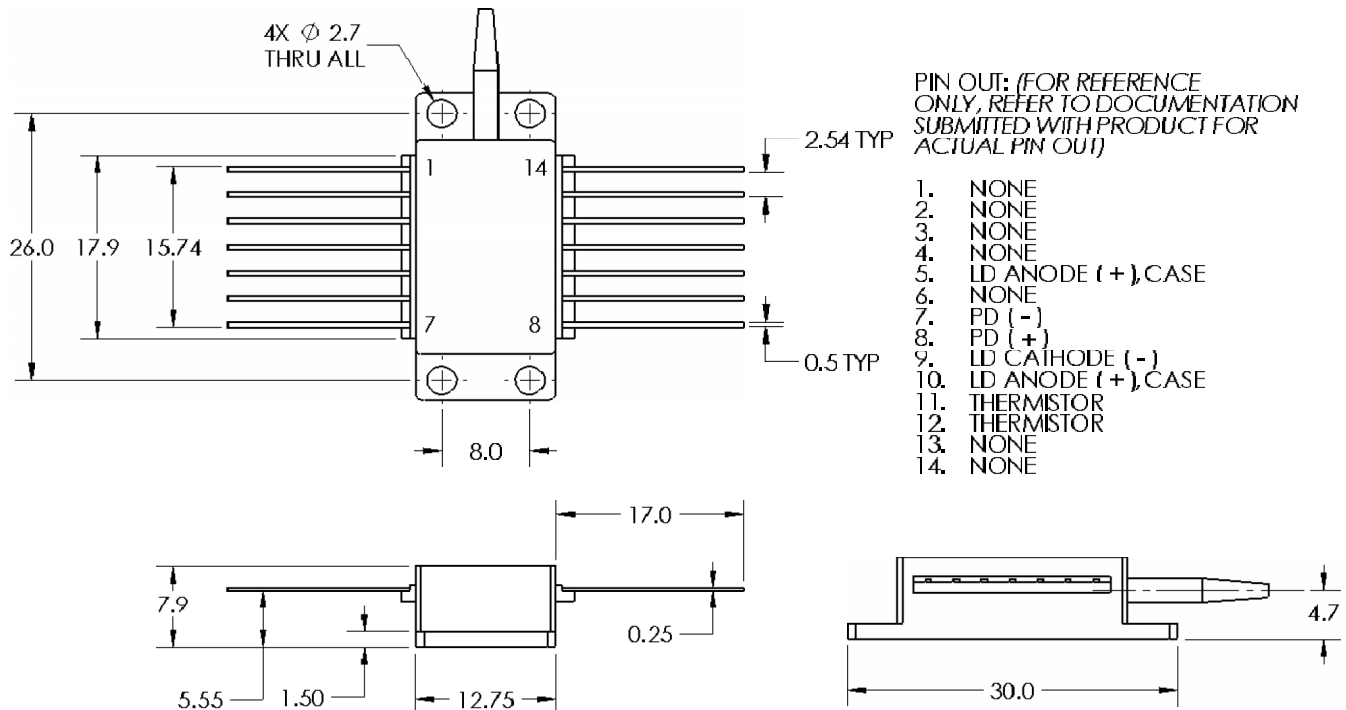
14 Pin Single Mode Butterfly



Symbol	14BF-101	14BF-107	14BF-102	14BF-103	Units	
Optical						
Center Wavelength	λ_c	1320	1560	1565	1655	nm (± 20)
Output power (CW)	P_o	300	190	190	160	mW
Spectral Width	$\Delta\lambda$	10	10	10	10	nm 3dB
Slope Efficiency	η_o	0.25	0.2	0.23	0.14	W/A
Electrical						
Power conversion Eff.	η	0.1	0.1	0.1	0.08	
Threshold Current	I_{th}	55	55	55	55	mA
Operating Current	I_{op}	1.2	0.9	0.9	0.95	A
Operating Volt	V_{op}	2.5	2.2	2.2	2.2	V
Series Resistance	R_s	1.40	1.4	1.40	1.40	ohm
Lead Soldering Temp	$^{\circ}C$	250	250	250	250	$^{\circ}C @ 10 \text{ sec}$
Thermistor						
Resistance	R	10 +/- 5% @ 25 $^{\circ}C$			K ohm	
Thermistor Constant	β	3477 +/- 3%			β	
Mechanical						
Weight		88			grams	
Operating Temp.		10 to 30			$^{\circ}C$	
Storage Temp.		-20 to 80			$^{\circ}C$	
Fiber Length (Single Mode)		1			meters	
Connector		FC/APC				

Preliminary

Specified values are rated at a constant heat sink temperature of 20 $^{\circ}C$



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