

Part Number: 14BF-290

High Power 14-Pin SOA Butterfly Fiber Coupled Module Single-Mode SOA Wavelength at 1310nm



Features

- High Output Power
- High Efficiency
- Polarization Maintenance Fiber
- Isolator Included before Output Fiber

Application

- LiDAR
- Free Space Communications
- Optical Fiber Communications
- Network Test Equipment



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.

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Specification

14BF-290



Optical	Symbol	Тур.	Units
Center Wavelength	λ_{c}	1310	nm
Output Power @1A*	Pout	24.9	dBm
PDL	PDL	0.4	dB
Return Loss (In)		45	dB
Return Loss (out)		50	dB
3dB Bandwidth	BW	80	nm
Gain @ Pin = 10μW	G	32	dB
Noise Figure	NF	6	dB
Electrical	Symbol	l	Units
Operating Current	Гор	1	А
Operating Voltage	V _{op}	2	V
Optical Fiber	Symbol		Units
Fiber Core		8	μm
Fiber Package			
Tibel Lackage			
Connector Type		FC / APC	
		FC / APC	m
Connector Type			m
Connector Type Fiber Length		1	m
Connector Type Fiber Length Pinout Type	β	1	m
Connector Type Fiber Length Pinout Type Thermistor	β R	1 Type 1	
Connector Type Fiber Length Pinout Type Thermistor Thermistor Constant		1 Type 1 3930	β
Connector Type Fiber Length Pinout Type Thermistor Thermistor Constant		1 Type 1 3930 10	β

*Optical Output Power for 14BF-290 has an SOA current @ 1.2A and Pin @ 10dBm into fiber *Optical Output Power for 14BF-287 has an SOA current @ 1.2A and Pin @ 15dBm into fiber

*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.

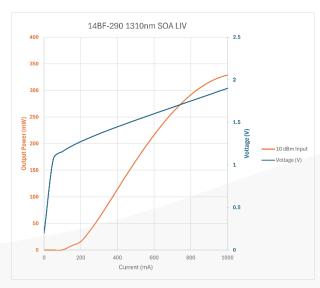
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SemiNex Laser Diodes 14BF-290

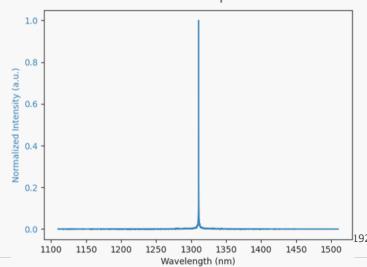
Graphs & Data

Typical 14BF L-I-V Characteristics



Typical 14BF Output Spectrum

14BF-290 1310nm SOA Spectrum at 500mA

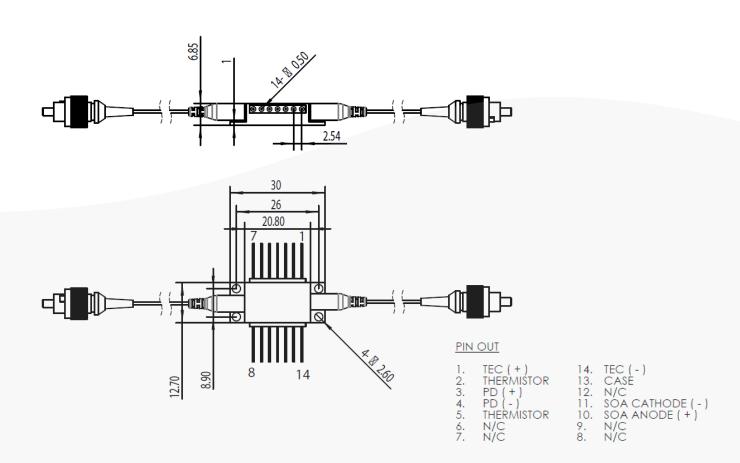


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Mechanical Drawing





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