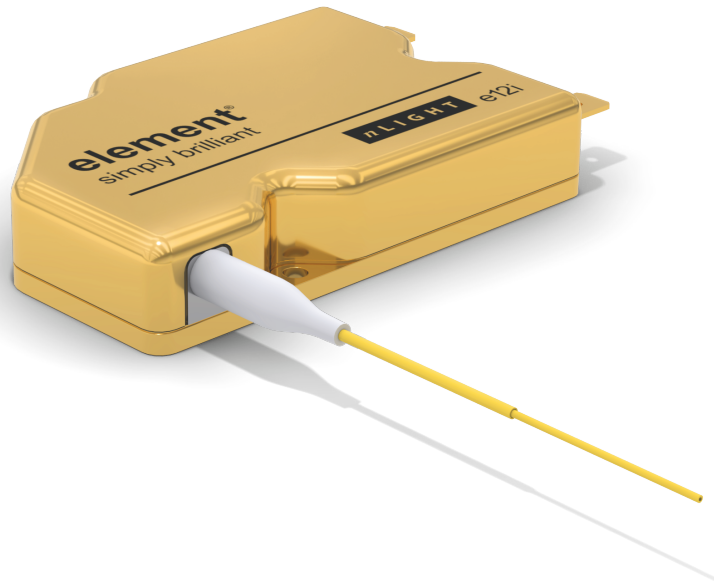




The brightest fiber coupled semiconductor lasers for pumping solid state and fiber lasers, and direct diode material processing.



With a robust portfolio to meet diverse needs, nLIGHT® element® semiconductor lasers deliver unparalleled brightness and performance for high-volume solid state and fiber laser pumping. These single emitter semiconductor lasers feature a proprietary optical design for efficient fiber coupling. The nLIGHT element platform optimizes cost and performance while allowing you to operate at a wide range of power levels and wavelengths from 793 to 976nm. These semiconductor lasers give you the quality and reliability you and your customers can depend on.

Key Features

- Modular architecture and manufacturing process delivers the industry's brightest diodes.
- Broad selection of optimized configurations allow you to meet your unique needs.
- Special wavelengths give you optimization for most efficient absorption or pumping ranges.
- Wavelength stabilization yields consistent performance across a range of operating conditions.
- nLIGHT reliability produces the uptime and performance you and your customers demand.

Specifications Overview

- Wavelengths: 793, 808, 878.6, 885, 888, 915, 940, 969, 976nm
- Fiber core: 105, 200, 400µm
- Power: 15 – 570W



Solid State Laser Pumping Specifications

Wavelength (nm)	Fiber Core (μm)	Power (W)	Excitation NA	Efficiency (%)	Housing Type
808 ± 3	200	45	0.19	47	e06
	200	70	0.16	52	e09i
	200	130	0.16	42	e18
	400	25	0.12	44	e03
	400	50	0.12	47	e06
878.6 ± 0.7	200	45	0.17	51	e03t
885 ± 1	200	90	0.17	52	e06i
888 ± 1	200	115	0.18	51	e09i
	200	175	0.18	51	e12i
	200	220	0.18	51	e18i
	225	300	0.19	50	e24i
940 ± 3	105	65	0.15	52	e06
	105	180	0.16	50	e18
	200	75	0.14	48	e06
	200	220	0.18	47	e18
940 ± 1	105	60	0.15	51	e06
	105	170	0.16	49	e18
	200	70	0.14	48	e06
	200	190	0.18	44	e18
969 ± 1	105	75	0.15	50	e06i
	105	155	0.18	50	e12i
	105	195	0.19	50	e18i
	200	180	0.18	51	e12i
	200	260	0.18	51	e18i
	200	355	0.16	49	e24i

Fiber Laser Pumping & Direct Diode Material Processing Specifications

Wavelength (nm)	Fiber Core (μm)	Power (W)	Excitation NA	Efficiency (%)	Housing Type
793 ± 3	105	15	0.12	58	e03
	105	30	0.15	55	e06
	105	90	0.15	49	e18
	105	120	0.18	49	e24i
	200	90	0.14	49	e12
	200	190	0.18	49	e24i
915 ± 5	105	70	0.15	47	e06
	105	200	0.15	45	e18
	200	160	0.15	47	e12
	200	420	0.16	54	e24i
976 ± 3	105	35	0.15	49	e03
	105	70	0.15	49	e06
	105	220	0.19	49	e18i
	200	100	0.14	54	e06i
	200	190	0.18	53	e12i
	200	400	0.16	54	e24i
	225	570	0.20	53	e30lc
976 ± 1	105	12	0.13	50	e03
	105	80	0.15	51	e06i
	105	165	0.18	51	e12i
	105	205	0.19	51	e18i
	200	180	0.18	52	e12i
	200	370	0.16	50	e24i
	225	535	0.20	52	e30lc

Performance characteristics are typical at 30°C housing temperature.

Additional configurations available upon request.

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