

Distributor

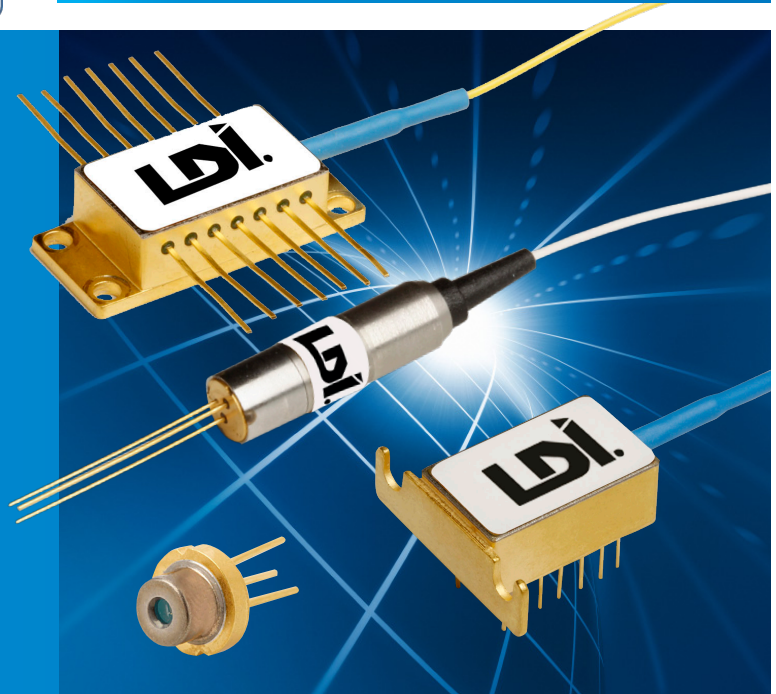


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where technologies meet solutions

- Wavelengths: 1310nm, 1490nm, 1550nm, 1625nm and 1650nm
- High Peak Optical Power (Pulsed)
Up to 200mW @ 1000mA
- Optical Power (CW) Up to 75 mW
- RoHS Compliant
- Singlemode and multimode fiber options
- Typical Applications* :
OTDR Instruments
Spectroscopy
Photon Counting
Optical and LOS Sensors
Talk Sets
- *Options: Temperature controlled or uncooled versions available.
Custom packaging available



OSI Laser Diode, Inc.'s High Power laser modules are designed to meet the performance demands of the optical test equipment marketplace. The high peak optical power LCW / SCW Series lasers serve 1310nm through 1650nm wavelengths and are available in fully hermetic laser welded packages. These packaged lasers can include both TEC and temperature sensing thermistors and back facet monitors for superior wavelength stability over a wide temperature range.

Characteristics w/TEC: $T_a = -30^\circ$ to 70° C; $T_{Id} = +25^\circ$ C **Conditions:** $P_w = 10\mu s$; $D/C = 1\%$
w/o TEC: $T_a = +25^\circ$ C **Fiber:** SMF 28e® or MMF GI 50; 1 meter min. fiber length for unconnectorized
1 meter +/- 0.1 for connectorized pigtails

PARAMETERS	Symbol	1330 Series			1430 Series			1530 Series			1630 Series			1650 Series			Units
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
Optical Power (Fiber)	P	120			100			100			100			100			mW
Optical Power (TO56)	P	350			300			300			250			225			mW
Optical Power (Fiber CW)*	P	75			60			60			60			55			mW
Forward Current	I_f		1000			1000			1000			1000			1000		mA
Threshold Current	I_{th}		30			35			35			45			45		mA
Forward Voltage	V_f		3			3			3			3			3		V
Center Wavelength	λ	1290	1310	1330	1470	1490	1510	1530	1550	1570	1615	1625	1635	1640	1650	1665	nm
Spectral Width	$\Delta\lambda$			8			10			10			12			12	nm
Cooling Capacity**	ΔT	45			45			45			45			45			°C
TEC Voltage**	V_{tec}		1.2	1.6		1.2	1.6		1.2	1.6		1.2	1.6		1.2	1.6	V
TEC Current**	I_{tec}		600	800		600	800		600	800		600	800		600	800	mA
Operating Temperature Range	T_{op}	-30		70	-30		70	-30		70	-30		70	-30		70	°C
Storage Temperature Range	T_{stg}	-40		85	-40		85	-40		85	-40		85	-40		85	°C

*400mA DC

**Cooled Modules Only

Reliability data available upon request

