



Diodes with AR Coating

The output facet of these diodes is coated with a high-quality AR coating. A common use of AR laser diodes is within an external cavity, allowing the exploitation of almost the entire gain spectrum for single frequency laser operation when used with a suitable wavelength selective element in the cavity.

Relevant laser parameters such as threshold current, slope efficiency and maximum output power depend strongly on the quality of the external cavity. We list here the typical values achieved in our tunable external cavity diode laser DL 100. WLmin, WLmax, MHFTR, Pdl specify the shortest wavelength, longest wavelength, mode-hop free tuning range and output power, respectively. The power is specified for the central part of the tuning range and can be lower at the edges.

All diodes operate in single transverse mode. They are shipped in industrial standard packages (5.6 mm or 9 mm can) unless mentioned otherwise.

WLmin nm	WLmax nm	MHFTR GHz	Pdl mW	Article Number	Stock	Remark
649	658	18	25	#LD-0650-0025-AR-1	> 3	**
651	658	15	20	#LD-0658-0015-AR-1	> 3	
652	659	15	25	#LD-0658-0030-AR-1	> 3	
654	659	15	25	#LD-0658-0030-AR-2	> 3	
661	672	20	35	#LD-0670-0035-AR-1	> 3	**
723	735	18	40	#LD-0730-0040-AR-1	> 3	** 30mW <726
727	735	15	10	#LD-0735-0010-AR-1	2	
738	747	20	20	#LD-0745-0020-AR-1	> 3	** 15 mW < 742 nm
755	787	25	50	#LD-0780-0050-AR-1	> 3	20 mW <765 nm; 30 mW <775 nm
765	790	20	80	#LD-0780-0100-AR-1	> 3	** 40mW<775nm,>785nm; 30mW>790nm
790	820	15	30	#LD-0820-0020-AR-1	> 3	
815	853	25	80	#LD-0850-0080-AR-1	> 3	** 30 mW <835 nm; 50 mW <845 nm
875	940	30	40	#LD-0895-0040-AR-2	> 3	20 mW <885 nm
915	985	15	100	#LD-0935-0100-AR-1	> 3	70mW outside of 930nm to 975nm
980	1075	15	50	#LD-1050-0050-AR-2	> 3	20 mW <995 nm; 30 mW <1010 nm
1045	1080	20	170	#LD-1060-0150-AR-1	3	**
1080	1130	20	120	#LD-1120-0100-AR-2	> 3	**
1115	1163	20	80	#LD-1150-0100-AR-1	> 3	** 50mW <1135nm, >1155
1135	1250	20	100	#LD-1200-0100-AR-1	2	** 40mW outside 1150-1240
1295	1320	20	50	#LD-1300-0050-AR-1	> 3	** 30mW outside 1300nm-1315nm
1300	1370	20	50	#LD-1320-0050-AR-2	> 3	**
1400	1490	15	60	#LD-1450-0060-AR-1	> 3	** 20mW @ 1400nm, 40mW @ 1490nm
1485	1525	5	20	#LD-1500-0020-AR-1	> 3	**
1510	1630	20	50	#LD-1600-0050-AR-1	> 3	** 20mW outside of 1540-1620
1520	1565	20	50	#LD-1550-0050-AR-2	2	**
1530	1560	15	15	#LD-1550-0015-AR-1	3	**
1560	1640	15	10	#LD-1600-0010-AR-1	3	**
1620	1670	10	5	#LD-1670-0005-AR-1	3	**
1630	1770	20	30	#LD-1700-0030-AR-1	3	** 20mW at WL < 1650

* : upon request

** : different specifications, ask for details