

Diodes with AR Coating

updated weekly
inventory subject to prior sales



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 listed here are typical values achieved with external cavity diode laser system like TOPTICA's DLC DL pro.

Diodes with a checkmark in the "4-laser check" column may have power restriction when used with the 4-laser upgrade of DLC pro. Please inquire.

The linewidth value refers either to the typical instantaneous linewidth of the DL pro or typical short term linewidth if followed by "[5μs]" (*); if no value is specified, please contact TOPTICA sales for an estimation. Please inquire for more information on the frequency noise (e.g. frequency noise density).

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

(*) Link to paper: "Linewidth-measurement"

WLmin, WLmax	lower and upper wavelengths of coarse tuning range	Linewidth $\Delta\nu$	typical linewidth (instantaneous or short term)
MHFTR	mode-hop free tuning range	4-laser check	possible restriction on power when used with the 4-laser upgrade of DLC pro
Pd	output power ex resonator with DLC DL pro or similar	Narrow $\Delta\nu$ option	availability of narrow linewidth option

WLmin nm	WLmax nm	MHFTR GHz	Pd mW	Linewidth $\Delta\nu$ in kHz	4-Laser Check	Narrow $\Delta\nu$ option	Article Number	Stock	Remark
369.5	373.5	20	20	1200			LD-0370-0050-AR-1	u.r.	only available in DL pro HP; system only
400	403	25	40				LD-0400-0050-AR-1	> 3	system only
410	415		45				LD-0415-0050-AR-2	3	system only
414	420	25	45				LD-0417-0050-AR-1	u.r.	system only
493	498	10	60	810			LD-0495-0060-AR-1	> 3	40mW: 493-494nm, 496-498nm; high ellipticity
647	656	10	30	30		√	LD-0655-0030-AR-1	1	20mW: 647-649nm, 654-656nm
665	671	30	45	100		√	LD-0670-0030-AR-1	> 3	system only
663	674	35	35	25		√	LD-0670-0035-AR-9	u.r.	
666	674	10	30	90		√	LD-0670-0035-AR-8	3	20mW: 666-668nm, 672-674nm; system only
671	679	20	100	5		√	LD-0675-0100-AR-1	u.r.	System only
679	694	25	45	2		√	LD-0685-0050-AR-2	> 3	40mW: 679-681nm; system only
679	690	20	20	300 [5μs]		√	LD-0690-0025-AR-1	2	high ellipticity; inquire
674	691	35	20	30			LD-0690-0025-AR-2	2	15mW: 674-680nm, 686-691nm

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WLmin nm	WLmax nm	MHFTR GHz	Pd mW	Linewidth Δv in kHz	4-Laser Check	Narrow option	Δv	Article Number	Stock	Remark
683	691	25	100	3			√	LD-0690-0100-AR-1	3	System only
688	700	20	100	3			√	LD-0700-0100-AR-1	> 3	80mW: 688-698nm; system only
689	707	30	35	2			√	LD-0705-0040-AR-2	> 3	25mW: 689-694nm, 705-707nm; system only
721	737	15	30	0.7			√	LD-0730-0030-AR-1	1	15mW: 721-725nm, 731-737nm
715	740	30	30	3			√	LD-0730-0040-AR-4	> 3	25mW: 738-740nm; system only
732	743	15	13	15			√	LD-0740-0015-AR-1	> 3	10mW: 732-738nm, 740-743nm; low PER; inquire
758	770	20	80	0.9				LD-0760-0100-AR-1	> 3	70mW: 767-770nm; low PER; inquire
778	790	10	220	3	√		√	LD-0780-0220-AR-1	> 3	200mW: 778-779nm, 788-790nm; low PER; system only; inquire
755	790	20	80	0.5			√	LD-0780-0080-AR-4	> 3	45mW: 760-770nm; 25mW: 755-760nm; low PER; inquire
770	810	20	80	0.6			√	LD-0790-0120-AR-7	u.r.	60mW: 770-780nm
785	810	30	100	100 [5 μ s]	√		√	LD-0790-0100-AR-1	> 3	70mW: 785-795nm, 805-810nm
805	855	30	100	0.5			√	LD-0840-0100-AR-1	u.r.	80mW: 815-825nm; 60mW: 805-815nm
840	875	30	90	5			√	LD-0860-0080-AR-1	> 3	80mW: 845-855nm; 65mW: 840-845nm
840	885	10	90	20			√	LD-0860-0080-AR-3	> 3	80mW: 845-850nm, 880-885nm; 70mW: 840-845nm
894	920	20	40	100 [5 μ s]				LD-0910-0050-AR-1	> 3	35mW: 894-905nm, 915-920nm
885	940	20	120	80 [5 μ s]	√		√	LD-0920-0200-AR-2	> 3	100mW: 885-894nm, 935-940nm; high ellipticity; inquire
930	990	18	100	1			√	LD-0935-0100-AR-2	1	90mW: 950-970nm, 983-990nm; 60mW: 930-950nm
980	1020	20	180	1			√	LD-1013-0200-AR-1	2	150mW: 980-1010nm
990	1085	25	200	2	√		√	LD-1060-0200-AR-3	> 3	150mW: 1020-1050nm; 90mW: 990-1020nm; inquire
1090	1135	8	280	0,7	√			LD-1110-0300-AR-2	> 3	250mW: 1090-1100nm, 1130-1135nm; high ellipticity; inquire
1120	1145	20	130	50 [5 μ s]	√		√	LD-1120-0100-AR-2	> 3	100mW: 1140-1145nm; high ellipticity; inquire
1115	1163	10	100	3	√		√	LD-1150-0100-AR-2	2	60mW: 1115-1140nm
1150	1230	10	120	1	√		√	LD-1200-0100-AR-1	> 3	80mW: 1150-1210nm
1230	1270	20	120	14	√			LD-1220-0100-AR-1	> 3	100mW: 1250-1260nm; 80mW: 1260-1270nm; inquire
1215	1275	15	100	20 [5 μ s]	√			LD-1250-0100-AR-1	u.r.	60mW: 1215-1235nm, 1265-1275nm; high ellipticity; inquire

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1180	1280	10	140	0.4	√			LD-1260-0140-AR-1	2	80mW: 1180-1250nm, 1265-1280nm
1220	1320	20	100	20 [5μs]	√			LD-1300-0100-AR-1	1	30mW: 1220-1285nm; high ellipticity; inquire
1270	1350	20	50	20 [5μs]	√	√		LD-1320-0050-AR-3	> 3	Inquire
1340	1450	15	80	100 [5μs]	√	√		LD-1380-0050-AR-1	3	70mW: 1360-1390nm; 50mW: 1340-1360nm; inquire
1430	1515	15	50		√	√		LD-1450-0060-AR-2	> 3	30mW: 1430-1440nm, 1510-1515nm
1490	1580	20	50		√	√		LD-1550-0050-AR-2	> 3	30mW: 1490-1520nm, 1565-1580nm; inquire
1510	1630	20	50			√		LD-1600-0050-AR-1	> 3	20mW: 1510-1540nm, 1620-1630nm; inquire
1630	1770	14	50		√	√		LD-1700-0030-AR-3	1	30mW: 1630-1650nm; inquire