

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 such as threshold current, slope efficiency, mode-hop free tuning range, and maximum output power depend strongly on the quality of the external cavity. We list here the typical values achieved with the tunable external cavity diode laser system DLC DL pro or similar:

WLmin, WLmax shortest and longest wavelength **Pd** output power ex resonator with DLC DL pro or similar **Linewidth $\Delta\nu$** laser linewidth (5 μ s)
MHFTR mode-hop free tuning range please note the Remark column **Narrow $\Delta\nu$ option** availability of narrow linewidth option

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	Pd mW	Linewidth $\Delta\nu$ in kHz	Narrow $\Delta\nu$ option	Article Number	Stock	Remark
400	403	25	40			#LD-0400-0050-AR-1	u.r.	
410	415	25	45			#LD-0415-0050-AR-1	u.r.	
454	460	50	20	300*		#LD-0455-0050-AR-1	1	454nm-456nm: 15mW
654	659	15	25			#LD-0658-0030-AR-2	1	
647	656	10	30	30	√	#LD-0655-0030-AR-1	1	20mW outside 649-654nm
658	666	15	40	500*		#LD-0660-0050-AR-1	2	658nm-660nm: 30mW, ellipse 4:1
665	673	35	30	200*	√	#LD-0670-0035-AR-6	2	system only; 20mW outside 666-670nm
666	674	10	30	90	√	#LD-0670-0035-AR-7	2	system only; 20mW outside 668-672nm
679	694	25	45	5		#LD-0685-0050-AR-2	2	40mW below 681nm; system only
679	690	30	20	300*	√	#LD-0690-0025-AR-1	3	ellipse 4:1
674	691	35	20	30		#LD-0690-0025-AR-2	3	15mW outside 680 - 686nm
696	710	20	35			#LD-0705-0040-AR-1	> 3	outside 701nm-706nm: 30mW; System only
689	707	30	35	5	√	#LD-0705-0040-AR-2	> 3	>25mW outside 694-705nm; system only
721	737	15	30	1	√	#LD-0730-0030-AR-1	> 3	15mW outside 725-731nm
715	740	30	40	5	√	#LD-0730-0040-AR-5	> 3	above 738nm: 30mW, 10GHz MHFTR; system only
732	743	15	13	15	√	#LD-0740-0015-AR-1	> 3	>10mW 732-738 & 740-743nm; PER <1:10; please inquire
715	740	30	40	5	√	#LD-0730-0040-AR-4	> 3	above 738nm: 30mW, 10GHz MHFTR; system only
755	790	20	80	1	√	#LD-0780-0080-AR-4	3	45mW below 770nm; 25mW below 760nm
777	790	10	220	15	√	#LD-0780-0220-AR-1	3	200mW outside 779-788nm; PER < 1:10

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746	768	15	100	70*			#LD-0760-0080-AR-2	3	90 mW <748 nm; PER < 1:4; below 746nm reduced ASE suppression
785	810	30	100	100*	√		#LD-0790-0100-AR-1	u.r.	70mW outside 795-805nm, please inquire
760	810	35	140	1	√		#LD-0790-0120-AR-4	u.r.	>60mW 760-770nm; >80mW 770-780nm; >120mW 780-795 & 805-810nm; PER<1:10
760	810	35	140	50	√		#LD-0790-0120-AR-6	u.r.	>60mW 760-770nm; >80mW 770-780nm; >120mW 780-795 & 805-810nm; PER<1:10
760	810	35	100	1	√		#LD-0790-0120-AR-5	u.r.	>40mW 760-770nm; >60mW 770-780nm; PER <1:10
805	850	10	80	150*	√		#LD-0840-0050-AR-1	> 3	>50mW 805-810nm; >60mW 810-815nm; >70 mW 815-825nm
840	875	30	90	5	√		#LD-0860-0080-AR-1	> 3	80mW below 855nm, 65mW below 845nm
840	885	10	90	60*	√		#LD-0860-0080-AR-3	> 3	80mW outside 850nm-880nm; 70mW below 845nm
894	920	20	40	100*			#LD-0910-0050-AR-1	1	outside 905nm-915nm: 35mW
885	940	25	120	80*	√		#LD-0920-0200-AR-1	> 3	100mW outside 894nm-935nm
930	990	18	100	50*	√		#LD-0935-0100-AR-2	u.r.	90mW outside 970nm-983nm; 60mW outside 950-990nm
990	1085	25	200	50*	√		#LD-1060-0200-AR-2	u.r.	Please inquire,150mW 990-1020nm;
1.080	1125	5	300	1			#LD-1110-0300-AR-1	u.r.	250mW outside 1100-1120nm
1.120	1145	20	130	50*	√		#LD-1120-0100-AR-2	> 3	above 1140nm 100mW; ellip.5:1
1.115	1163	10	100				#LD-1150-0100-AR-2	1	40mW <1150nm; ellipse 5:1
1.150	1230	10	140	50*	√		#LD-1200-0100-AR-1	> 3	80mW below 1210nm, ellipse 5:1, inquire
1.170	1270	30	80	5			#LD-1220-0100-AR-1	> 3	60mW outside 1225-1260nm, 40mW below 1190nm
1.215	1275	15	100	20*			#LD-1250-0100-AR-1	1	60mW outside 1235nm - 1265nm; ellipse 5:1
1.180	1280	10	140	1			#LD-1260-0140-AR-1	1	80 mW outside 1250 – 1265 nm
1.220	1320	20	100	20*			#LD-1300-0100-AR-1	u.r.	>30mW below 1285nm. Ellipse 5:1. Please inquire.
1.270	1350	40	50	20*	√		#LD-1320-0050-AR-3	> 3	Please inquire
1.340	1450	30	80	100*	√		#LD-1380-0050-AR-1	u.r.	70mW < 1390nm, 50mW < 1360nm; please inquire
1.430	1515	15	50	100*	√		#LD-1450-0060-AR-2	> 3	30 mW < 1440 nm, >1510 nm; please inquire
1.490	1580	20	50	60*	√		#LD-1550-0050-AR-2	u.r.	30mW outside 1520-1565nm, ellipse 1:1, inquire
1.510	1630	20	50		√		#LD-1600-0050-AR-1	> 3	20mW outside of 1540-1620, inquire

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1.630	1770	20	50		√		#LD-1700-0030-AR-3	> 3	30mW <1650, inquire