

## DFB &amp; DBR Laser Diodes

updated weekly  
inventory subject to prior sales



Distributed Feedback (DFB) and Distributed Bragg Reflector (DBR) laser diodes feature a frequency-selective structure within the laser chip, which restricts the laser emission to a single longitudinal mode. The lasing wavelength is tuned by varying either the driver current or the chip temperature. Single-frequency operation is usually maintained over several hundred GHz without any mode-hops.

In the table below, WL indicates the design wavelength. P is the maximum output power of the diode. WLmin and WLmax denote the wavelength range accessible via temperature tuning and dL/dT is the thermal tuning coefficient in nm/K.

Note that the range between WLmin and WLmax is usually, but not always, mode-hop free. If your application requires guaranteed mode-hop-free tuning, please inquire with TOPTICA Photonics. Further information e.g. regarding electric tuning, fast modulation options, spectroscopic applications and locking to resonance lines is available upon request.

The laser linewidth is indicated when used with DLC pro or similar (instantaneous or short term [5μs] if marked with \*).

Diodes with a TO-3 or butterfly-type package include a built-in thermistor and thermoelectric cooler. For other diodes (5.6 mm or 9 mm housings), we recommend TOPTICA's patented ColdPack for precise temperature control.

WL nm	P mW	WLmin nm	WLmax nm	dL/dT nm/K	Linewidth Δν in kHz	Article Number	Stock	Remark
633.0		632.8	633.2	0.04	1000*	#LD-0633-0010-DBR-1	u.r.	
634.0		633.8	634.2	0.04	1000*	#LD-0633-0010-DBR-1	u.r.	
760.0		759.4	760.6	0.07	20	#LD-0760-0080-DBR-1	> 3	
778.0	60	777.1	778.9	0.06	700*	#LD-0778-0060-DBR-1	u.r.	
779.9	80	778.7	780.8	0.06	2000*	#LD-0780-0080-DFB-2	1	For Rb spectroscopy [1], TO-3
780.0	80	778.8	780.9	0.06	2000*	#LD-0780-0080-DFB-2	1	For Rb spectroscopy [1], TO-3
780.0	120	778.8	781.2	0.07		#LD-0780-0120-DBR-1	1	
784.3	100	783.2	785.4	0.06	2000*	#LD-0785-0100-DFB-2	u.r.	TO-3
785.3	100	784.2	786.4	0.06	2000*	#LD-0785-0100-DFB-2	u.r.	TO-3
795.0	80	793.9	795.8	0.06	600*	#LD-0795-0080-DFB-1	u.r.	For Rb spectroscopy (D1 line)
808.0	100				1000*	#LD-0808-0100-DBR-1	1	
851.4	140	850.4	852.4	0.06	2000*	#LD-0852-0150-DFB-1	u.r.	For Cs spectroscopy [1], TO-3
854.0	100	853	855	0.06	160	#LD-0854-0100-DFB-1	2	
861.0	20	859.1	861.4	0.07		#LD-0860-0020-DFB-1	3	

[1] Note: The diodes reach the target wavelengths for Rb/Cs spectroscopy, though not necessarily at the center of the tuning range.

u.r. : upon request

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866.0	20	864.1	866.4	0.07		#LD-0860-0020-DFB-1	u.r.	
895.0	40	893.8	896.2	0.07		#LD-0895-0040-DBR-1	3	For Cs spectroscopy [1]
935.0	30	934.9	936.3	0.08		#LD-0935-0030-DFB-1	> 3	
936.0	80	934.9	936.8	0.06		#LD-0935-0080-DFB-1	1	
1030.0	40			0.08		#LD-1030-0040-DFB-3	u.r.	ellipse 5:1, APP recommended not selected
1051.0	30	1049.1	1053.2	0.1		#LD-1053-0030-DFB-1	u.r.	Butterfly + pigtail
1054.0	30	1052.1	1056.2	0.1		#LD-1053-0030-DFB-1	u.r.	Butterfly + pigtail
1064.0	30	1062.1	1066.2	0.1		#LD-1064-0030-DFB-1	1	Butterfly + pigtail
1065.0	30	1063.1	1067.2	0.1		#LD-1064-0030-DFB-1	1	Butterfly + pigtail
1083.0	70	1081.7	1084.7	0.08		#LD-1083-0070-DFB-1	u.r.	TO-3
1315.0	10	1314	1316		2000	#LD-1315-0010-DFB-1	u.r.	Butterfly + pigtail
1315.0	20	1314	1316			#LD-1315-0020-DFB-1	u.r.	Butterfly + pigtail
1364.7	20	1362.7	1366.7	0.1		#LD-1360-0020-DFB-1	u.r.	Butterfly + pigtail
1392.4	10	1390.4	1394.4	0.1		#LD-1395-0010-DFB-1	u.r.	Butterfly, PM Pigtail
1470.0	20	1467.6	1472.4	0.12		#LD-1470-0020-DFB-1	u.r.	Butterfly + pigtail
1479.0	20	1476.6	1481.4	0.12		#LD-1470-0020-DFB-1	2	Butterfly + pigtail
1490.0	8					#LD-1490-0010-DFB-1	u.r.	Butterfly, PM Pigtail not selected
1530.0	40	1528.1	1532.2	0.1		#LD-1550-0040-DFB-1	u.r.	Butterfly + pigtail
1537.0	40	1535.1	1539.2	0.1		#LD-1550-0040-DFB-1	u.r.	Butterfly + pigtail
1545.0	40	1543.1	1547.2	0.1		#LD-1550-0040-DFB-1	u.r.	Butterfly + pigtail
1550.0	40	1548.1	1552.2	0.1		#LD-1550-0040-DFB-1	3	Butterfly + pigtail
1550.0	80	1547.8	1552.2	0.11	1000*	#LD-1550-0080-DFB-1	u.r.	Butterfly + pigtail

[1] Note: The diodes reach the target wavelengths for Rb/Cs spectroscopy, though not necessarily at the center of the tuning range.

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1550.0	100	1547.8	1552.2	0.11	1000*	#LD-1550-0100-DFB-1	u.r.	Butterfly + pigtail
1550.1	100	1547.9	1552.3	0.11	1000*	#LD-1550-0100-DFB-1	u.r.	Butterfly + pigtail
1551.0	40	1549.1	1553.2	0.1		#LD-1550-0040-DFB-1	u.r.	Butterfly + pigtail
1575.0	40	1573.1	1577.2	0.1		#LD-1550-0040-DFB-1	u.r.	Butterfly + pigtail
2723.0	2	2718.2	2725.2	0.23		#LD-2740-0003-DFB-1	u.r.	

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