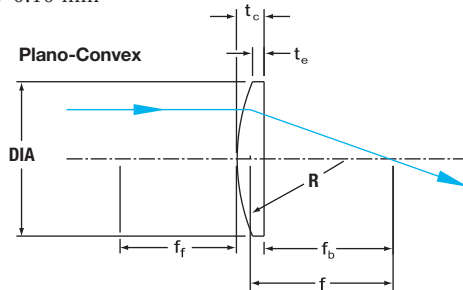
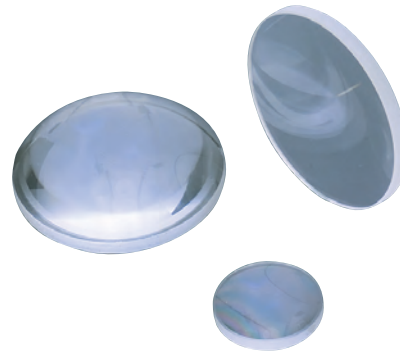


**AR Coating Plot on Page 589**

# N-BK7: Plano-Convex Lenses (Page 1 of 2)

## Specifications

- **Material:** N-BK7
- **Wavelength Range:** 350 nm – 2.0  $\mu$ m
- **Design Wavelength:** 633 nm (n = 1.515)
- **Diameter Tolerance:** +0.00/-0.10 mm
- **Focal Length Tolerance:**  $\pm 1\%$
- **Surface Quality:** 40-20 Scratch-Dig
- **Centration:**  $\leq 3$  arcmin
- **Clear Aperture:** >90%



Please refer to our website for complete models and drawings.

Plano-Convex optics are best used where one conjugate point (object distance S or image distance S') is more than five times the other. The performance of this lens shape is near best-form for either focusing collimated light or for collimating a point source.

### Standard Broadband AR Coatings

To order the lens with a standard broadband AR Coating, add the coating code to the Item#, and then add the coating cost to the lens price. Example: LA1116 Coated with a 350-700 nm Broadband AR Coating is LA1116-A, and the cost is \$18.00 + \$9.20 = \$27.20.

COATING*	WAVELENGTH	\$	£	€	RMB
-A	350 - 700 nm	\$ 9.20	£ 6.40	€ 8.20	¥ 77.70
-B	650 - 1050 nm	\$ 9.20	£ 6.40	€ 8.20	¥ 77.70
-C	1050 - 1620 nm	\$ 12.20	£ 8.45	€ 10.90	¥ 103.10

\*Contact Tech Support for custom coatings.

## N-BK7 Plano-Convex Lenses: Diameter < 25.0 mm

ITEM#	DIA (mm)	f (mm)	PRICE UNCOATED (For Coated Lens Add Suffix)				R (mm)	t <sub>c</sub> (mm)	t <sub>e</sub> * (mm)	f <sub>b</sub> (mm)	SUGGESTED MOUNT**
			\$	£	€	RMB					
LA1116	6.0	10.0	\$ 18.00	£ 12.50	€ 16.00	¥ 152.00	5.2	2.5	1.5	8.4	LMRA6 and LMR05 See Page 238
LA1470	6.0	12.0	\$ 16.80	£ 11.70	€ 15.00	¥ 141.90	6.2	2.3	1.5	10.5	
LA1222	6.0	15.0	\$ 16.80	£ 11.70	€ 15.00	¥ 141.90	7.7	2.1	1.5	13.6	
LA1700	6.0	30.0	\$ 16.50	£ 11.50	€ 14.70	¥ 139.40	15.5	1.8	1.5	28.8	
LA1576	9.0	12.0	\$ 18.70	£ 13.00	€ 16.70	¥ 158.00	6.2	3.0	1.5	9.7	LMRA9 and LMR05 See Page 238
LA1472	9.0	20.0	\$ 16.80	£ 11.70	€ 15.00	¥ 141.90	10.3	2.5	1.5	18.3	
LA1540	12.7	15.0	\$ 18.70	£ 13.00	€ 16.70	¥ 158.00	7.7	5.1	1.8	11.6	LMR05 See Page 238
LA1074	12.7	20.0	\$ 18.40	£ 12.80	€ 16.40	¥ 155.40	10.3	4.0	1.8	17.4	
LA1560	12.7	25.0	\$ 17.10	£ 11.90	€ 15.20	¥ 144.40	12.9	3.5	1.8	22.7	
LA1289	12.7	30.0	\$ 16.80	£ 11.70	€ 15.00	¥ 141.90	15.5	3.2	1.8	27.9	
LA1304	12.7	40.0	\$ 16.40	£ 11.40	€ 14.60	¥ 138.50	20.6	2.8	1.8	38.1	
LA1213	12.7	50.0	\$ 16.30	£ 11.30	€ 14.50	¥ 137.70	25.8	2.6	1.8	48.3	
LA1207	12.7	100.0	\$ 16.30	£ 11.30	€ 14.50	¥ 137.70	51.5	2.2	1.8	98.6	
LA1859	18.0	20.0	\$ 19.60	£ 13.60	€ 17.50	¥ 165.60	10.3	7.1	1.8	15.3	LH1 See Page 242
LA1270	18.0	25.0	\$ 18.70	£ 13.00	€ 16.70	¥ 158.00	12.9	5.5	1.8	21.4	
LA1085	18.0	30.0	\$ 18.20	£ 12.70	€ 16.20	¥ 153.70	15.5	4.7	1.8	26.9	
LA1119	18.0	50.0	\$ 18.20	£ 12.70	€ 16.20	¥ 153.70	25.8	3.4	1.8	47.7	

\* Edge thickness given before 0.20 mm at 45° typical chamfer.

\*\* See the Lens Mount Section, Starting on Page 237.

**NEW versions**

## N-BK7 Plano-Convex Lenses: Diameter = 25.0 mm

ITEM#	DIA (mm)	f (mm)	PRICE UNCOATED (For Coated Lens Add Suffix)				R (mm)	t <sub>c</sub> (mm)	t <sub>e</sub> * (mm)	f <sub>b</sub> (mm)	SUGGESTED MOUNT**
			\$	£	€	RMB					
LA1252	25.0	25.4	\$ 22.00	£ 15.30	€ 19.60	¥ 185.80	51.50	3.60	2.06	97.60	LMR1 See Page 238
LA1255	25.0	50.0	\$ 20.00	£ 13.90	€ 17.80	¥ 168.90	25.80	5.30	2.07	46.50	
LA1257	25.0	75.0	\$ 19.00	£ 13.20	€ 16.90	¥ 160.50	38.60	4.10	2.02	72.30	
LA1251	25.0	100.0	\$ 19.00	£ 13.20	€ 16.90	¥ 160.50	51.50	3.60	2.06	97.60	
LA1253	25.0	200.0	\$ 18.00	£ 12.50	€ 16.00	¥ 152.00	103.00	2.80	2.04	198.20	

\* Edge thickness given before 0.20 mm at 45° typical chamfer.

\*\* See the Lens Mount Section, Starting on Page 237.

Selection continues on the next page

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Page 589**

## N-BK7: Plano-Convex Lenses (Page 2 of 2)

**NEW**  
versions

### N-BK7 Plano-Convex Lenses: Diameter = 25.4 mm (1")

ITEM#	DIA (mm)	f (mm)	PRICE UNCOATED (For Coated Lens Add Suffix)				R (mm)	t <sub>c</sub> (mm)	t <sub>c</sub> <sup>*</sup> (mm)	f <sub>b</sub> (mm)	SUGGESTED MOUNT**
			\$	£	€	RMB					
LA1951	25.4	25.4	\$ 21.50	£ 15.00	€ 19,10	¥ 181.60	13.1	11.7	1.8	17.7	LMR1 See Page 238
LA1805	25.4	30.0	\$ 21.00	£ 14.60	€ 18,70	¥ 177.40	15.5	8.6	2.0	24.3	
LA1027	25.4	35.0	\$ 20.40	£ 14.20	€ 18,20	¥ 172.30	18.0	7.2	2.0	30.2	
LA1422	25.4	40.0	\$ 20.10	£ 14.00	€ 17,90	¥ 169.80	20.6	6.4	2.0	35.8	
LA1131	25.4	50.0	\$ 19.60	£ 13.60	€ 17,50	¥ 165.60	25.8	5.3	2.0	46.5	
LA1134	25.4	60.0	\$ 19.40	£ 13.50	€ 17,30	¥ 163.90	30.9	4.7	2.0	56.9	
LA1608	25.4	75.0	\$ 19.20	£ 13.40	€ 17,10	¥ 162.20	38.6	4.1	2.0	72.3	
LA1509	25.4	100.0	\$ 18.50	£ 12.90	€ 16,50	¥ 156.30	51.5	3.6	2.0	97.6	
LA1986	25.4	125.0	\$ 18.50	£ 12.90	€ 16,50	¥ 156.30	64.4	3.3	2.0	122.9	
LA1433	25.4	150.0	\$ 18.00	£ 12.50	€ 16,00	¥ 152.00	77.3	3.1	2.0	148.0	
LA1229	25.4	175.0	\$ 17.90	£ 12.50	€ 15,90	¥ 151.20	90.1	2.9	2.0	173.1	
LA1708	25.4	200.0	\$ 17.80	£ 12.40	€ 15,90	¥ 150.40	103.0	2.8	2.0	198.2	
LA1461	25.4	250.0	\$ 17.60	£ 12.30	€ 15,70	¥ 148.70	128.8	2.6	2.0	248.3	
LA1484	25.4	300.0	\$ 17.60	£ 12.30	€ 15,70	¥ 148.70	154.5	2.5	2.0	298.3	
LA1172	25.4	400.0	\$ 17.60	£ 12.30	€ 15,70	¥ 148.70	206.0	2.4	2.0	398.4	
LA1908	25.4	500.0	\$ 17.60	£ 12.30	€ 15,70	¥ 148.70	257.6	2.3	2.0	498.5	
LA1978	25.4	750.0	\$ 17.60	£ 12.30	€ 15,70	¥ 148.70	386.3	2.2	2.0	748.5	
LA1464	25.4	1000.0	\$ 17.30	£ 12.00	€ 15,40	¥ 146.10	515.1	2.2	2.0	998.6	

\* Edge thickness given before 0.20 mm at 45° typical chamfer.

\*\* See the Lens Mount Section, Starting on Page 237.

### Expanded Selection

### N-BK7 Plano-Convex Lenses: Diameter = 30 mm

ITEM#	DIA (mm)	f (mm)	PRICE UNCOATED (For Coated Lens Add Suffix)				R (mm)	t <sub>c</sub> (mm)	t <sub>c</sub> <sup>*</sup> (mm)	f <sub>b</sub> (mm)	SUGGESTED MOUNT**
			\$	£	€	RMB					
LA1274	30.0	40.0	\$ 25.30	£ 17.60	€ 22,50	¥ 213.70	20.6	9.0	2.5	34.1	LMR30 See Page 238
LA1102	30.0	50.0	\$ 22.00	£ 15.30	€ 19,60	¥ 185.80	25.8	7.3	2.5	45.2	
LA1765	30.0	75.0	\$ 22.00	£ 15.30	€ 19,60	¥ 185.80	38.6	5.5	2.5	71.3	
LA1031	30.0	100.0	\$ 21.80	£ 15.20	€ 19,40	¥ 184.10	51.5	4.7	2.5	96.9	
LA1907	30.0	150.0	\$ 22.00	£ 15.30	€ 19,60	¥ 185.80	77.3	3.1	1.6	147.0	
LA1541	30.0	200.0	\$ 22.00	£ 15.30	€ 19,60	¥ 185.80	102.8	2.8	1.7	196.8	
LA1832	30.0	250.0	\$ 22.00	£ 15.30	€ 19,60	¥ 185.80	128.3	2.6	1.7	246.6	
LA1419	30.0	300.0	\$ 22.00	£ 15.30	€ 19,60	¥ 185.80	156.6	2.5	1.8	296.3	
LA1237	30.0	500.0	\$ 22.00	£ 15.30	€ 19,60	¥ 185.80	255.9	2.3	1.8	495.2	

\* Edge thickness given before 0.20 mm at 45° typical chamfer.

\*\* See the Lens Mount Section, Starting on Page 237.

### N-BK7 Plano-Convex Lenses: Diameter = 50.8 mm (2")

ITEM#	DIA (mm)	f (mm)	PRICE UNCOATED (For Coated Lens Add Suffix)				R (mm)	t <sub>c</sub> (mm)	t <sub>c</sub> <sup>*</sup> (mm)	f <sub>b</sub> (mm)	SUGGESTED MOUNT**
			\$	£	€	RMB					
LA1401	50.8	60.0	\$ 31.50	£ 21.90	€ 28,00	¥ 266.00	30.9	16.3	3.0	49.2	LMR2 See Page 238
LA1145	50.8	75.0	\$ 29.10	£ 20.20	€ 25,90	¥ 245.80	38.6	12.5	3.0	66.7	
LA1050	50.8	100.0	\$ 25.80	£ 17.90	€ 23,00	¥ 217.90	51.5	9.7	3.0	93.6	
LA1384	50.8	125.0	\$ 25.70	£ 17.90	€ 22,90	¥ 217.10	64.4	8.2	3.0	119.6	
LA1417	50.8	150.0	\$ 25.30	£ 17.60	€ 22,50	¥ 213.70	77.3	7.3	3.0	145.2	
LA1399	50.8	175.0	\$ 25.30	£ 17.60	€ 22,50	¥ 213.70	90.1	6.7	3.0	170.6	
LA1979	50.8	200.0	\$ 25.30	£ 17.60	€ 22,50	¥ 213.70	103.0	6.2	3.0	195.9	
LA1301	50.8	250.0	\$ 25.20	£ 17.50	€ 22,40	¥ 212.80	128.8	5.5	3.0	246.4	
LA1256	50.8	300.0	\$ 26.90	£ 18.70	€ 23,90	¥ 227.20	154.5	5.1	3.0	296.6	
LA1725	50.8	400.0	\$ 27.10	£ 18.80	€ 24,10	¥ 228.90	206.0	4.6	3.0	397.0	
LA1380	50.8	500.0	\$ 27.10	£ 18.80	€ 24,10	¥ 228.90	257.3	4.3	3.0	497.2	
LA1727	50.8	750.0	\$ 27.10	£ 18.80	€ 24,10	¥ 228.90	386.3	3.8	3.0	747.5	
LA1779	50.8	1000.0	\$ 27.10	£ 18.80	€ 24,10	¥ 228.90	515.1	3.6	3.0	997.6	

\* Edge thickness given before 0.20 mm at 45° typical chamfer.

\*\* See the Lens Mount Section, Starting on Page 237.

### N-BK7 Plano-Convex Lenses: Diameter = 75 mm

ITEM#	DIA (mm)	f (mm)	PRICE UNCOATED (For Coated Lens Add Suffix)				R (mm)	t <sub>c</sub> (mm)	t <sub>c</sub> <sup>*</sup> (mm)	f <sub>b</sub> (mm)	SUGGESTED MOUNT**
			\$	£	€	RMB					
LA1740	75.0	85.0	\$ 38.20	£ 26.50	€ 34,00	¥ 322.60	43.8	24.2	3.0	69.0	LMR75 See Page 238
LA1238	75.0	100.0	\$ 38.20	£ 26.50	€ 34,00	¥ 322.60	51.5	19.2	3.0	87.3	
LA1002	75.0	150.0	\$ 36.60	£ 25.40	€ 32,50	¥ 309.10	77.3	12.7	3.0	141.6	
LA1353	75.0	200.0	\$ 34.30	£ 23.80	€ 30,50	¥ 289.70	103.0	10.1	3.0	193.4	

\* Edge thickness given before 0.20 mm at 45° typical chamfer.

\*\* See the Lens Mount Section, Starting on Page 237.