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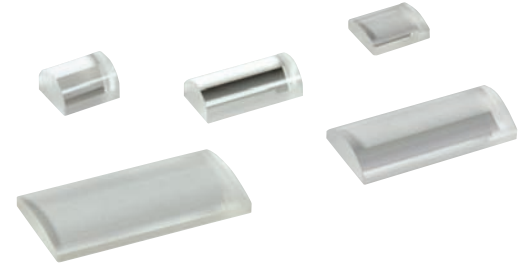
Diffusers

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Thorlabs stocks a large number of uncoated lenses. If your application requires a custom coating, please contact us directly for price and availability. Custom housings are also available.

N-BK7: Plano-Convex Cylindrical Lenses (Page 1 of 3)

Positive cylindrical lenses are ideal for applications requiring magnification in one dimension. A typical application is to use a pair of cylindrical lenses to provide anamorphic shaping of a beam. A pair of positive cylindrical lenses can be used to circularize and collimate the output of a laser diode. Another application possibility would be to use a single lens to focus a diverging beam onto a linear detector array.



Specifications

- **Material:** N-BK7
- **Wavelength Range:** 350 nm – 2.0 μ m
- **Design Wavelength:** 587.6 nm ($n = 1.517$)
- **Length Tolerance:** +0.00/-0.10 mm
- **Center Thickness Tolerance:** ± 0.2 mm
- **Surface Flatness (Plano Side):** $\lambda/2$
- **Cylindrical Surface Power (Convex Side):** $3\lambda/2$
- **Height Tolerance:** +0.00/-0.10 mm
- **Focal Length Tolerance:** $\pm 1\%$
- **Surface Quality:** 60-40 Scratch-Dig
- **Centration**
 - ≤ 5 arcmin for $f \leq 50$ mm
 - ≤ 3 arcmin for $f > 50$ mm
- **Clear Aperture:** $> 90\%$ of Dimensions
- **Surface Irregularity (Plano Side):** $\lambda/4$
- **Surface Irregularity (Convex Side)**
 - λ for Height
 - λ/cm for Length

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.

COATING	WAVELENGTH	\$	£	€	RMB
-A	350 - 700 nm	\$ 9.20	£ 6.62	€ 8.00	¥ 73.32
-B	650 - 1050 nm	\$ 9.20	£ 6.62	€ 8.00	¥ 73.32
-C	1050 - 1620 nm	\$ 12.20	£ 8.78	€ 10.61	¥ 97.23

Example: LJ1598L1 coated with 350 - 700 nm Broadband AR Coating is LJ1598L1-A, and the cost is \$44.00 + \$9.20 = \$53.20.

Plano-Convex Cylindrical Lenses: N-BK7, $f = 3.9$ to 25.0 mm

ITEM #	f (mm)	f _b (mm)	H (mm)	L (mm)	PRICE UNCOATED (For Coated Lens Add Suffix)				R (mm)	t _c (mm)	t _c (mm)
					\$	£	€	RMB			
LJ1598L1	3.9	1.4	4.0	6.0	\$ 44.00	£ 31.68	€ 38.28	¥ 350.64	2.0	3.8	2.0
LJ1598L2	3.9	1.4	4.0	8.0	\$ 52.30	£ 37.65	€ 45.50	¥ 416.79	2.0	3.8	2.0
LJ1310L1	4.0	1.7	4.0	6.0	\$ 44.00	£ 31.68	€ 38.28	¥ 350.64	2.1	3.6	2.0
LJ1310L2	4.0	1.7	4.0	8.0	\$ 52.30	£ 37.65	€ 45.50	¥ 416.79	2.1	3.6	2.0
LJ1918L1	5.8	4.0	4.0	6.0	\$ 44.00	£ 31.68	€ 38.28	¥ 350.64	3.0	2.8	2.0
LJ1918L2	5.8	4.0	4.0	8.0	\$ 52.30	£ 37.65	€ 45.50	¥ 416.79	3.0	2.8	2.0
LJ1227L1	6.4	3.7	6.0	8.0	\$ 75.39	£ 54.28	€ 65.59	¥ 600.86	3.3	4.0	2.0
LJ1227L2	6.4	3.7	6.0	12.0	\$ 88.94	£ 64.04	€ 77.38	¥ 708.85	3.3	4.0	2.0
LJ1874L1	7.7	5.0	7.0	9.0	\$ 51.35	£ 36.97	€ 44.67	¥ 409.22	4.0	4.1	2.0
LJ1874L2	7.7	5.0	7.0	14.0	\$ 61.75	£ 44.46	€ 53.72	¥ 492.11	4.0	4.1	2.0
LJ1822L1	9.7	5.3	10.0	12.0	\$ 59.75	£ 43.02	€ 51.98	¥ 476.17	5.0	6.7	2.0
LJ1878L1	10.0	6.1	10.0	12.0	\$ 59.75	£ 43.02	€ 51.98	¥ 476.17	5.2	5.9	2.0
LJ1878L2	10.0	6.1	10.0	20.0	\$ 73.09	£ 52.62	€ 63.59	¥ 582.53	5.2	5.9	2.0
LJ1942L1	12.7	9.9	10.0	12.0	\$ 50.30	£ 36.21	€ 43.76	¥ 400.85	6.6	4.3	2.0
LJ1942L2	12.7	9.9	10.0	20.0	\$ 61.65	£ 44.38	€ 53.63	¥ 491.31	6.6	4.3	2.0
LJ1909L1	13.7	9.6	13.0	15.0	\$ 57.65	£ 41.50	€ 50.15	¥ 459.43	7.1	6.3	2.0
LJ1636L1	15.0	12.5	10.0	12.0	\$ 50.30	£ 36.21	€ 43.76	¥ 400.85	7.8	3.8	2.0
LJ1636L2	15.0	12.5	10.0	20.0	\$ 61.65	£ 44.38	€ 53.63	¥ 491.31	7.8	3.8	2.0
LJ1095L1	19.0	15.0	16.0	18.0	\$ 65.73	£ 47.33	€ 57.19	¥ 523.87	9.8	6.1	2.0
LJ1155L1	19.7	15.8	16.0	18.0	\$ 66.05	£ 47.55	€ 57.46	¥ 526.38	10.2	5.9	2.0
LJ1960L1	20.0	17.8	10.0	12.0	\$ 50.30	£ 36.21	€ 43.76	¥ 400.85	10.3	3.3	2.0
LJ1960L2	20.0	17.8	10.0	20.0	\$ 61.65	£ 44.38	€ 53.63	¥ 491.31	10.3	3.3	2.0
LJ1328L1	20.0	16.6	15.0	17.0	\$ 62.90	£ 45.28	€ 54.72	¥ 501.27	10.3	5.2	2.0
LJ1328L2	20.0	16.6	15.0	30.0	\$ 76.35	£ 54.97	€ 66.42	¥ 608.47	10.3	5.2	2.0
LJ1638L1	22.2	19.7	12.5	15.0	\$ 57.65	£ 41.50	€ 50.15	¥ 459.43	11.5	3.9	2.0
LJ1810L1	25.0	22.9	10.0	12.0	\$ 50.30	£ 36.21	€ 43.76	¥ 400.85	12.9	3.0	2.0
LJ1810L2	25.0	22.9	10.0	20.0	\$ 61.65	£ 44.38	€ 53.63	¥ 491.31	12.9	3.0	2.0
LJ1075L1	25.0	20.4	20.0	22.0	\$ 75.39	£ 54.28	€ 65.59	¥ 600.86	12.9	6.7	2.0
LJ1075L2	25.0	20.4	20.0	40.0	\$ 91.94	£ 66.20	€ 79.99	¥ 732.76	12.9	6.7	2.0

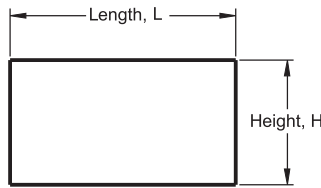
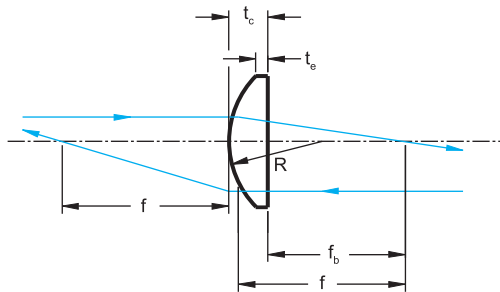
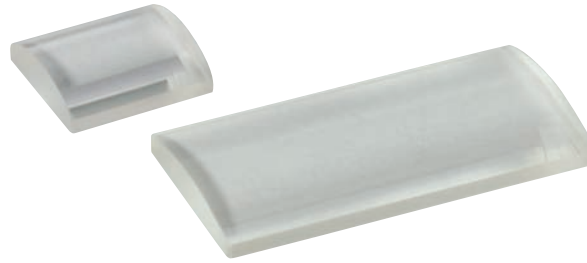
N-BK7: Plano-Convex Cylindrical Lenses (Page 2 of 3)

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.

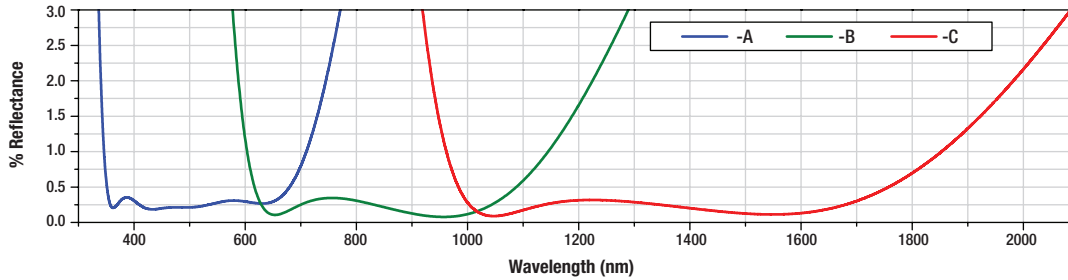
COATING	WAVELENGTH	\$	£	€	RMB
-A	350 - 700 nm	\$ 9.20	£ 6.62	€ 8.00	¥ 73.32
-B	650 - 1050 nm	\$ 9.20	£ 6.62	€ 8.00	¥ 73.32
-C	1050 - 1620 nm	\$ 12.20	£ 8.78	€ 10.61	¥ 97.23

Example: LJ1014L1 coated with 350 - 700 nm Broadband AR Coating is LJ1014L1-A, and the cost is \$66.05 + \$9.20 = \$75.25.



Please refer to our website for complete models and drawings.

N-BK7 Broadband Antireflection Coatings



Plano-Convex Cylindrical Lenses: N-BK7, f = 25.4 to 80.0 mm

ITEM #	f (mm)	f _b (mm)	H (mm)	L (mm)	PRICE UNCOATED (For Coated Lens Add Suffix)				R (mm)	t _c (mm)	t _b (mm)
					\$	£	€	RMB			
LJ1014L1	25.4	22.3	16.0	18.0	\$ 66.05	£ 47.55	€ 57.46	¥ 526.38	13.1	4.7	2.0
LJ1622L1	25.4	17.6	25.4	28.0	\$ 91.14	£ 65.62	€ 79.29	¥ 726.39	13.1	11.8	2.0
LJ1212L1	30.0	26.3	20.0	22.0	\$ 75.39	£ 54.28	€ 65.59	¥ 600.86	15.5	5.7	2.0
LJ1212L2	30.0	26.3	20.0	40.0	\$ 91.94	£ 66.20	€ 79.99	¥ 732.76	15.5	5.7	2.0
LJ1765L1	38.1	33.7	25.4	28.0	\$ 91.14	£ 65.62	€ 79.29	¥ 726.39	19.7	6.6	2.0
LJ1402L1	40.0	38.3	10.0	12.0	\$ 50.30	£ 36.21	€ 43.76	¥ 400.85	20.7	2.6	2.0
LJ1402L2	40.0	38.3	10.0	20.0	\$ 63.65	£ 45.82	€ 55.37	¥ 507.25	20.7	2.6	2.0
LJ1125L1	40.0	37.0	20.0	22.0	\$ 75.39	£ 54.28	€ 65.59	¥ 600.86	20.7	4.6	2.0
LJ1125L2	40.0	37.0	20.0	40.0	\$ 92.94	£ 66.92	€ 80.86	¥ 740.73	20.7	4.6	2.0
LJ1821L1	50.0	47.4	20.0	22.0	\$ 75.39	£ 54.28	€ 65.59	¥ 600.86	25.8	4.0	2.0
LJ1821L2	50.0	47.4	20.0	40.0	\$ 92.94	£ 66.92	€ 80.86	¥ 740.73	25.8	4.0	2.0
LJ1695L1	50.0	45.5	30.0	32.0	\$ 102.69	£ 73.94	€ 89.34	¥ 818.44	25.8	6.8	2.0
LJ1695L2	50.0	45.5	30.0	60.0	\$ 123.87	£ 89.18	€ 107.76	¥ 987.20	25.8	6.8	2.0
LJ1728L1	50.8	36.7	50.8	53.0	\$ 157.08	£ 113.10	€ 136.66	¥ 1,251.93	26.4	21.6	2.0
LJ1430L1	60.0	56.1	30.0	32.0	\$ 102.69	£ 73.94	€ 89.34	¥ 818.44	31.0	5.9	2.0
LJ1477L1	70.0	66.5	30.0	32.0	\$ 102.69	£ 73.94	€ 89.34	¥ 818.44	36.2	5.3	2.0
LJ1703L1	75.0	67.4	50.8	53.0	\$ 156.56	£ 112.72	€ 136.20	¥ 1,247.74	38.8	11.5	2.0
LJ1054L1	75.6	72.2	25.4	28.0	\$ 91.14	£ 65.62	€ 79.29	¥ 726.39	39.1	5.1	3.0
LJ1054L2	75.6	72.2	25.4	51.0	\$ 109.69	£ 78.98	€ 95.43	¥ 874.23	39.1	5.1	3.0
LJ1258L1	75.6	67.4	50.8	53.0	\$ 156.56	£ 112.72	€ 136.20	¥ 1,247.74	39.1	12.4	3.0
LJ1105L1	80.0	77.2	20.0	22.0	\$ 75.39	£ 54.28	€ 65.59	¥ 600.86	41.3	4.2	3.0
LJ1105L2	80.0	77.2	20.0	40.0	\$ 93.94	£ 67.64	€ 81.73	¥ 748.70	41.3	4.2	3.0

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Lens Sold
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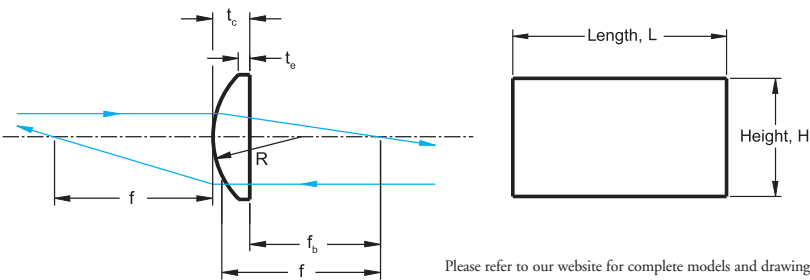
N-BK7: Plano-Convex Cylindrical Lenses
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Standard Broadband AR Coatings

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.

COATING	WAVELENGTH	\$	£	€	RMB
-A	350 – 700 nm	\$ 9.20	£ 6.62	€ 8,00	¥ 73.32
-B	650 – 1050 nm	\$ 9.20	£ 6.62	€ 8,00	¥ 73.32
-C	1050 – 1620 nm	\$ 12.20	£ 8.78	€ 10,61	¥ 97.23

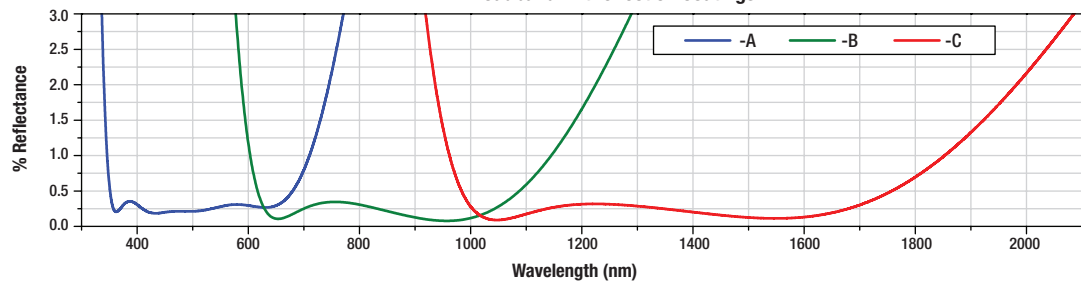
Example: LJ1567L1 coated with 350 – 700 nm Broadband AR Coating is LJ1567L1-A, and the cost is \$102.69 + \$9.20 = \$111.89.



Specifications

- Material: N-BK7
- Wavelength Range: 350 nm – 2.0 μ m
- Design Wavelength: 587.6 nm ($n = 1.517$)
- Length Tolerance: +0.00/-0.10 mm
- Center Thickness Tolerance: ± 0.2 mm
- Surface Flatness (Plano Side): $\lambda/2$
- Cylindrical Surface Power (Convex Side): $3\lambda/2$
- Height Tolerance: +0.00/-0.10 mm
- Focal Length Tolerance: $\pm 1\%$
- Surface Quality: 60-40 Scratch-Dig
- Centration
 - ≤ 5 arcmin for $f \leq 50$ mm
 - ≤ 3 arcmin for $f > 50$ mm
- Clear Aperture: $>90\%$ of Dimensions
- Surface Irregularity (Plano Side): $\lambda/4$
- Surface Irregularity (Convex Side):
 - λ for Height
 - λ/cm for Length

N-BK7 Broadband Antireflection Coatings

Plano-Convex Cylindrical Lenses: N-BK7, $f = 100.0$ to 1000.0 mm

ITEM #	f (mm)	f _b (mm)	H (mm)	L (mm)	PRICE UNCOATED (For Coated Lens Add Suffix)				R (mm)	t _c (mm)	t _e (mm)
					\$	£	€	RMB			
LJ1567L1	100.0	96.6	30.0	32.0	\$ 102.69	£ 73.94	€ 89,34	¥ 818.44	51.7	5.2	3.0
LJ1567L2	100.0	96.6	30.0	60.0	\$ 123.87	£ 89.18	€ 107,76	¥ 987.20	51.7	5.2	3.0
LJ1640L1	130.0	126.9	30.0	32.0	\$ 102.59	£ 73.86	€ 89,25	¥ 817.60	67.2	4.7	3.0
LJ1934L1	150.0	147.6	20.0	22.0	\$ 75.39	£ 54.28	€ 65,59	¥ 600.86	77.5	3.6	3.0
LJ1629L1	150.0	147.1	30.0	32.0	\$ 102.69	£ 73.94	€ 89,34	¥ 818.44	77.5	4.5	3.0
LJ1629L2	150.0	147.1	30.0	60.0	\$ 123.87	£ 89.18	€ 107,76	¥ 987.20	77.5	4.5	3.0
LJ1895L1	150.0	136.0	100.0	90.0	\$ 282.24	£ 203.21	€ 245,55	¥ 2,249.45	77.5	21.3	3.0
LJ1653L1	200.0	197.3	30.0	32.0	\$ 102.69	£ 73.94	€ 89,34	¥ 818.44	103.4	4.1	3.0
LJ1653L2	200.0	197.3	30.0	60.0	\$ 123.87	£ 89.18	€ 107,76	¥ 987.20	103.4	4.1	3.0
LJ1309L1	200.0	189.5	100.0	90.0	\$ 282.24	£ 203.21	€ 245,55	¥ 2,249.45	103.4	15.9	3.0
LJ1309L2	200.0	189.5	100.0	145.0	\$ 384.06	£ 276.52	€ 334,13	¥ 3,060.92	103.4	15.9	3.0
LJ1277L1	250.0	247.8	20.0	22.0	\$ 76.34	£ 54.96	€ 66,41	¥ 608.39	129.2	3.4	3.0
LJ1277L2	250.0	247.8	20.0	40.0	\$ 94.15	£ 67.79	€ 81,91	¥ 750.38	129.2	3.4	3.0
LJ1267L1	250.0	245.7	60.0	62.0	\$ 177.56	£ 127.84	€ 154,47	¥ 1,415.11	129.2	6.5	3.0
LJ1558L1	300.0	297.7	30.0	32.0	\$ 102.69	£ 73.94	€ 89,34	¥ 818.44	155.1	3.7	3.0
LJ1558L2	300.0	297.7	30.0	60.0	\$ 123.87	£ 89.18	€ 107,76	¥ 987.20	155.1	3.7	3.0
LJ1996L1	300.0	296.2	60.0	62.0	\$ 177.56	£ 127.84	€ 154,47	¥ 1,415.11	155.1	5.9	3.0
LJ1363L1	400.0	397.7	30.0	32.0	\$ 102.69	£ 73.94	€ 89,34	¥ 818.44	206.7	3.5	3.0
LJ1363L2	400.0	397.7	30.0	60.0	\$ 124.29	£ 89.49	€ 108,13	¥ 990.55	206.7	3.5	3.0
LJ1144L1	500.0	497.7	30.0	32.0	\$ 102.69	£ 73.94	€ 89,34	¥ 818.44	258.4	3.4	3.0
LJ1144L2	500.0	497.7	30.0	60.0	\$ 124.29	£ 89.49	€ 108,13	¥ 990.55	258.4	3.4	3.0
LJ1836L1	700.0	697.8	30.0	32.0	\$ 102.69	£ 73.94	€ 89,34	¥ 818.44	361.8	3.3	3.0
LJ1516L1	1000.0	997.9	30.0	32.0	\$ 102.69	£ 73.94	€ 89,34	¥ 818.44	516.8	3.2	3.0
LJ1516L2	1000.0	997.9	30.0	60.0	\$ 124.29	£ 89.49	€ 108,13	¥ 990.55	516.8	3.2	3.0

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