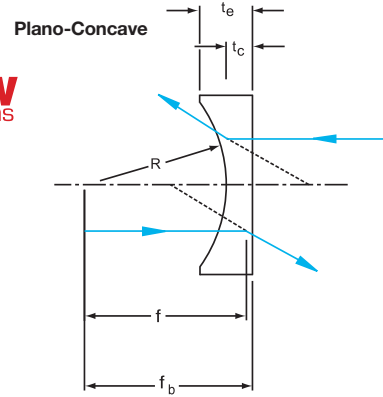


AR Coating Plot on Page 589

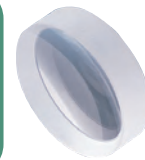
N-BK7 or N-SF11: Plano-Concave and Bi-Concave Lenses

Plano-Concave lenses have a negative focal length and are typically used to diverge collimated beams of light in instruments like Galilean-type beam expanders or telescopes. The spherical aberration introduced into the wavefront by a plano-concave lens is negative and, as a result, it can be used to balance the positive spherical aberration introduced by other lenses.

NEW versions



Please refer to our website for complete models and drawings.



Specifications

- **Material:** N-BK7 or N-SF11
- **Diameter Tolerance:** +0.00/-0.10 mm
- **Wavelength Range:** N-BK7: 350 nm - 2.0 μ m
- **Focal Length Tolerance:** \pm 1%
- **Surface Quality:** 40-20 Scratch-Dig
- **Design Wavelength:** 633 nm
- **Centration:** \leq 3 arcmin
- **Clear Aperture:** >90% of Diameter

Bi-Concave lenses have a negative focal length and are commonly used to increase the divergence of converging light.

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	£ 6.40	€ 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

Example: LC2969 coated with a 350 - 700 nm Broadband AR Coating is LC2969-A, and the cost is \$19.90 + \$9.20 = \$29.10

N-BK7 or N-SF11: Plano-Concave Lenses

ITEM#	DIA (mm)	f (mm)	PRICE UNCOATED (For Coated Lens Add Suffix)				R (mm)	t _c (mm)	t _c * (mm)	f _b (mm)	MATERIAL	SUGGESTED MOUNT**
			\$	£	€	RMB						
LC2969	6.0	-6.0	\$ 19.90	£ 13.80	€ 17,70	¥ 168.10	-4.7	1.5	2.6	-6.8	N-SF11	LMRA6 and LMR05 See Page 238
LC2632	6.0	-12.0	\$ 21.00	£ 14.60	€ 18,70	¥ 177.40	-9.3	2.0	2.5	-13.1	N-SF11	
LC1975	6.0	-24.0	\$ 13.60	£ 9.45	€ 12,10	¥ 114.90	-12.4	2.0	2.4	-25.3	N-BK7	LMRA9 and LMR05 See Page 238
LC2067	9.0	-9.0	\$ 24.80	£ 17.20	€ 22,10	¥ 209.50	-7.0	2.0	3.6	-10.1	N-SF11	
LC2873	9.0	-18.0	\$ 19.60	£ 13.60	€ 17,50	¥ 165.60	-14.0	2.5	3.2	-19.4	N-SF11	LMR05 See Page 238
LC1906	9.0	-27.0	\$ 14.10	£ 9.75	€ 12,60	¥ 119.10	-13.9	2.0	2.7	-28.3	N-BK7	
LC2265	12.7	-15.0	\$ 26.60	£ 18.50	€ 23,70	¥ 224.70	-11.7	3.0	4.9	-16.7	N-SF11	LMR05 See Page 238
LC1054	12.7	-25.0	\$ 15.00	£ 10.40	€ 13,40	¥ 126.70	-12.9	3.0	4.7	-27.0	N-BK7	
LC1060	12.7	-30.0	\$ 14.90	£ 10.35	€ 13,30	¥ 125.90	-15.4	3.0	4.4	-32.0	N-BK7	LMR05 See Page 238
LC1439	12.7	-50.0	\$ 14.70	£ 10.20	€ 13,10	¥ 124.20	-25.7	3.5	4.3	-52.3	N-BK7	
LC1259	25.0	-50.0	\$ 17.00	£ 11.80	€ 15,10	¥ 143.60	-25.7	3.5	6.7	-52.3	N-BK7	LMR1 See Page 238 and SM1L05 See Page 123
LC1258	25.0	-75.0	\$ 17.00	£ 11.80	€ 15,10	¥ 143.60	-38.6	3.5	5.6	-77.3	N-BK7	
LC1254	25.0	-100.0	\$ 26.00	£ 18.10	€ 23,10	¥ 219.60	-51.5	4.0	5.5	-102.6	N-BK7	LMR1 See Page 238 and SM1L05 See Page 123
LC2679	25.4	-30.0	\$ 27.20	£ 18.90	€ 24,20	¥ 229.70	-23.4	3.5	7.3	-32.0	N-SF11	
LC1715	25.4	-50.0	\$ 17.40	£ 12.10	€ 15,50	¥ 147.00	-25.7	3.5	6.9	-52.3	N-BK7	LMR1 See Page 238 and SM1L05 See Page 123
LC1582	25.4	-75.0	\$ 17.40	£ 12.10	€ 15,50	¥ 147.00	-38.6	3.5	5.6	-77.3	N-BK7	
LC1120	25.4	-100.0	\$ 17.20	£ 12.00	€ 15,30	¥ 145.30	-51.5	4.0	5.6	-102.6	N-BK7	LH2 See Page 242
LC1315	50.8	-75.0	\$ 33.30	£ 23.10	€ 29,60	¥ 281.20	-38.6	3.5	13.0	-77.3	N-BK7	
LC1093	50.8	-100.0	\$ 28.20	£ 19.60	€ 25,10	¥ 238.20	-51.5	4.0	10.7	-102.6	N-BK7	LMR2 See Page 238
LC1611	50.8	-150.0	\$ 27.00	£ 18.80	€ 24,00	¥ 228.00	-77.2	4.0	8.3	-152.6	N-BK7	

*Edge Thickness prior to chamfer (0.2 mm at 45° typical) **See the lens mount section, starting on page 237.

N-BK7 or N-SF11: Bi-Concave Lenses

ITEM#	DIA (mm)	f (mm)	PRICE UNCOATED (For Coated Lens Add Suffix)				R (mm)	t _c (mm)	t _c * (mm)	f _b (mm)	MATERIAL	SUGGESTED MOUNT**
			\$	£	€	RMB						
LD2746	6.0	-6.0	\$ 23.40	£ 16.30	€ 20,80	¥ 197.60	-9.7	1.5	2.5	-6.4	N-SF11	LMRA6 and LMR05 See Page 238
LD2568	9.0	-9.0	\$ 20.80	£ 14.50	€ 18,50	¥ 175.70	-14.4	2.0	3.4	-9.5	N-SF11	LMRA9 and LMR05 See Page 238
LD2060	12.7	-15.0	\$ 26.10	£ 18.10	€ 23,20	¥ 220.40	-24.0	3.0	4.7	-15.8	N-SF11	LMR05 See Page 238
LD1357	12.7	-50.0	\$ 14.10	£ 9.75	€ 12,60	¥ 119.10	-52.1	3.5	4.3	-51.1	N-BK7	
LD2297	25.4	-25.0	\$ 31.20	£ 21.70	€ 27,70	¥ 263.50	-39.6	3.0	7.2	-25.8	N-SF11	LMR1 See Page 238 and SM1L05 See Page 123
LD1464	25.4	-50.0	\$ 18.90	£ 13.20	€ 16,80	¥ 159.60	-52.0	3.0	6.1	-51.0	N-BK7	
LD1170	25.4	-75.0	\$ 18.20	£ 12.70	€ 16,20	¥ 153.70	-77.9	3.5	5.6	-76.1	N-BK7	LMR1 See Page 238 and SM1L05 See Page 123
LD1613	25.4	-100.0	\$ 16.70	£ 11.60	€ 14,90	¥ 141.10	-103.7	4.0	5.6	-101.3	N-BK7	

*Edge Thickness prior to chamfer (0.2 mm at 45° typical) **See the lens mount section, starting on page 237.