

LENSES

| | | | |
|---|---|--|----|
| Optical Glass Plano-convex Lenses | 2 | Fused Silica Plano-concave Lenses..... | 7 |
| Optical Glass Plano-concave Lenses..... | 3 | Fused Silica Bi-convex Lenses..... | 8 |
| Optical Glass Bi-convex Lenses..... | 4 | Fused Silica Bi-concave Lenses..... | 9 |
| Optical Glass Bi-concave Lenses..... | 5 | Cylindrical Lenses..... | 10 |
| Fused Silica Plano-convex Lenses..... | 6 | | |

DDC TECHNOLOGIES

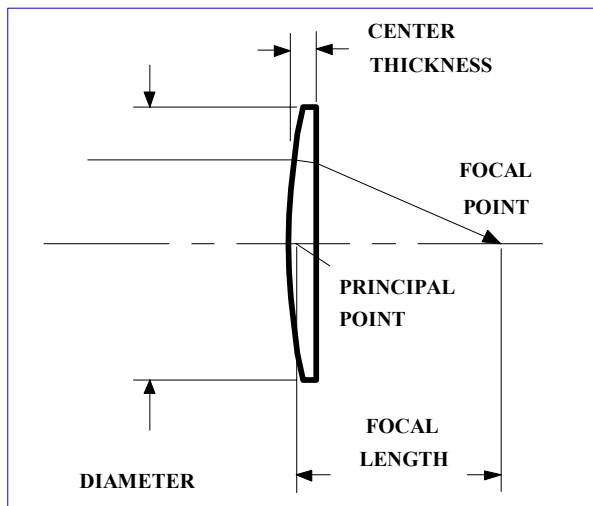


Fig. 27 Plano-convex Lens.

Plano convex lenses as a rule are used as collimating condensers and for focusing of collimated beams. Note, that collimated beam should contact with curved part of the length as it shown on Fig 28. Lenses from such materials (borosilicate crown glass) have a low cost and have preference with respect to fused silica if operating at high temperature or UV transmittance is not required. These lenses have low spherical aberrations too.

SPECIFICATION

| | |
|---------------------|---------------------|
| Material | BK7 |
| Surface quality | 40-20 scratch-dig |
| Optical aperture | 90% of the diameter |
| Diameter tolerance | +0.00, -0.12mm |
| Thickness tolerance | ± 0.2mm |
| Focal length | ± 1% |

| Model | Dia. (mm) | Focal length (mm) | Center Thickness (mm) | Price |
|-------|-----------|-------------------|-----------------------|---------|
| 22005 | 6.35 | 6.4 | 5.38 | \$16.90 |
| 22007 | 6.35 | 12.7 | 3.81 | \$15.60 |
| 22009 | 6.35 | 25.4 | 3.39 | \$15.60 |
| 22011 | 6.35 | 50.2 | 3.19 | \$15.60 |
| 22013 | 6.35 | 75.6 | 3.12 | \$15.60 |
| 22015 | 6.35 | 100.0 | 3.09 | \$15.60 |
| 22103 | 12.70 | 25.4 | 4.63 | \$16.90 |
| 22105 | 12.70 | 50.2 | 3.78 | \$15.60 |
| 22107 | 12.70 | 75.6 | 3.51 | \$15.60 |
| 22109 | 12.70 | 100.0 | 3.39 | \$15.60 |
| 22111 | 12.70 | 150.0 | 3.26 | \$15.60 |
| 22113 | 12.70 | 250.0 | 3.15 | \$15.60 |
| 22203 | 25.40 | 25.4 | 12.8 | \$19.50 |
| 22205 | 25.40 | 50.2 | 6.32 | \$18.85 |
| 22207 | 25.40 | 75.6 | 5.12 | \$18.20 |
| 22209 | 25.40 | 100.0 | 4.58 | \$18.20 |
| 22211 | 25.40 | 150.0 | 4.04 | \$18.20 |
| 22213 | 25.40 | 200.0 | 3.78 | \$18.20 |
| 22215 | 25.40 | 250.0 | 3.62 | \$16.90 |
| 22217 | 25.40 | 300.0 | 3.52 | \$16.90 |
| 22219 | 25.40 | 500.0 | 3.31 | \$16.90 |
| 22221 | 25.40 | 1000.0 | 3.15 | \$16.90 |
| 22303 | 50.80 | 75.6 | 12.38 | \$27.30 |
| 22305 | 50.80 | 100.0 | 9.67 | \$26.00 |
| 22307 | 50.80 | 150.0 | 7.27 | \$26.00 |
| 22309 | 50.80 | 250.0 | 5.52 | \$26.00 |
| 22311 | 50.80 | 500.0 | 4.25 | \$25.35 |
| 22313 | 50.80 | 1000.0 | 3.62 | \$24.70 |
| 22403 | 76.20 | 100.0 | 19.76 | \$37.70 |
| 22405 | 76.20 | 200.0 | 10.27 | \$36.40 |
| 22407 | 76.20 | 300.0 | 7.75 | \$35.10 |
| 22409 | 76.20 | 1000.0 | 4.40 | \$35.10 |

Contact DDC TECHNOLOGIES for other size or focal length



Plano concave lenses as a rule are used for decreasing of overall focal length and for increasing of beam size in lens combination. Focal point for these lenses is the point of imaginary intersection of diverging light rays (Fig. 29). Focal length in this case is believed negative and is twice the radius of curvature of length. Note, that for lowest spherical aberration curved surface must contact the parallel beam. These lenses also have preference with respect to fused silica lenses if operating at high temperature or UV transmittance is not required.

SPECIFICATIONS

| | |
|---------------------|---------------------|
| Material | BK7 |
| Surface quality | 40-20 scratch-dig |
| Optical aperture | 90% of the diameter |
| Diameter tolerance | +0.00, -0.12mm |
| Thickness tolerance | ± 0.2mm |
| Focal length | ± 1% |

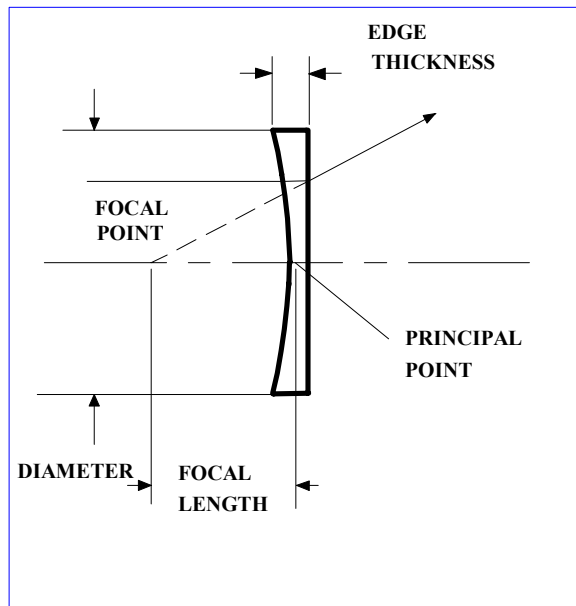


Fig. 29 Plano-concave Lens.

| Model | Dia. (mm) | Focal length (mm) | Edge Thickness (mm) | Price |
|-------|-----------|-------------------|---------------------|---------|
| 23003 | 6.35 | -12.7 | 3.16 | \$15.60 |
| 23007 | 6.35 | -25.4 | 2.82 | \$11.70 |
| 23103 | 12.70 | -25.4 | 3.83 | \$11.70 |
| 23105 | 12.70 | -50.2 | 3.14 | \$11.70 |
| 23107 | 12.70 | -75.6 | 2.92 | \$11.70 |
| 23109 | 12.70 | -100.0 | 2.81 | \$11.70 |
| 23203 | 25.40 | -25.4 | 9.39 | \$19.50 |
| 23205 | 25.40 | -50.2 | 5.16 | \$14.30 |
| 23207 | 25.40 | -75.6 | 4.22 | \$14.30 |
| 23209 | 25.40 | -100.0 | 3.78 | \$14.30 |
| 23211 | 25.40 | -150.0 | 3.34 | \$13.65 |
| 23213 | 25.40 | -200.0 | 3.13 | \$13.00 |
| 23303 | 50.80 | -75.6 | 9.95 | \$29.90 |
| 23305 | 50.80 | -100.0 | 7.83 | \$27.30 |
| 23307 | 50.80 | -150.0 | 5.94 | \$27.30 |
| 23309 | 50.80 | -250.0 | 4.53 | \$26.00 |
| 23311 | 50.80 | -500.0 | 3.51 | \$24.70 |
| 23405 | 76.20 | -200.0 | 9.00 | \$61.10 |
| 23407 | 76.20 | -1000.0 | 3.85 | \$61.10 |

Contact DDC TECHNOLOGIES for other size or focal length.

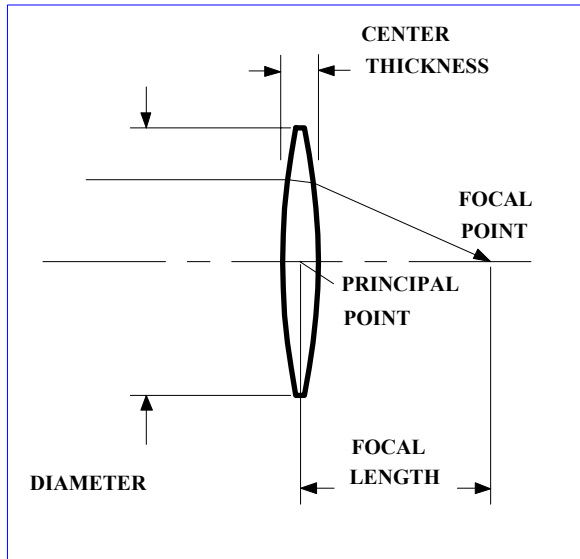


Fig. 31 Bi-convex Lens.

Optical glass bi-convex lenses are used for obtaining images at magnifications close to 1 and for beam focusing when the short focal length of the system is more critical than the image quality or spot size. The radii of curvature of both sides of such lenses are equal. It leads to low optical aberrations such as coma, distortion and chromatic aberrations when magnifications are in the range 0.2 - 5. Note, that the focal length of such lenses is equal to radius of curvature (see Fig 31). Lenses from such material (borosilicate crown glass) have a low cost and have preference with respect to fused silica when the thermal breakage or distortion hazard is low and you want to cut the UV part of the broadband source emission.

SPECIFICATIONS

| | |
|---------------------|---------------------|
| Material | BK7 |
| Surface quality | 40-20 scratch-dig |
| Optical aperture | 90% of the diameter |
| Diameter tolerance | +0.00, -0.12mm |
| Thickness tolerance | ± 0.2mm |
| Focal length | ± 1% |

| Model | Dia. (mm) | Focal length (mm) | Center Thickness (mm) | Price |
|-------|-----------|-------------------|-----------------------|----------------|
| 22505 | 6.35 | 6.4 | 4.96 | \$18.20 |
| 22507 | 6.35 | 12.7 | 3.82 | \$16.90 |
| 22509 | 6.35 | 25.4 | 3.39 | \$16.90 |
| 22511 | 6.35 | 50.2 | 3.19 | \$16.90 |
| 22513 | 6.35 | 75.6 | 3.12 | \$16.90 |
| 22601 | 12.70 | 12.7 | 6.68 | \$18.20 |
| 22603 | 12.70 | 25.4 | 4.61 | \$16.90 |
| 22605 | 12.70 | 50.2 | 3.78 | \$16.90 |
| 22607 | 12.70 | 75.6 | 3.51 | \$16.90 |
| 22609 | 12.70 | 100.0 | 3.39 | \$16.25 |
| 22611 | 12.70 | 150.0 | 3.26 | \$16.25 |
| 22703 | 25.40 | 25.4 | 10.13 | \$19.50 |
| 22705 | 25.40 | 50.2 | 6.22 | \$18.85 |
| 22707 | 25.40 | 75.6 | 5.10 | \$18.20 |
| 22709 | 25.40 | 100.0 | 4.57 | \$18.20 |
| 22711 | 25.40 | 150.0 | 4.04 | \$16.90 |
| 22713 | 25.40 | 200.0 | 3.78 | \$16.90 |
| 22715 | 25.40 | 250.0 | 3.62 | \$16.90 |
| 22717 | 25.40 | 500.0 | 3.31 | \$16.25 |
| 22719 | 25.40 | 1000.0 | 3.15 | \$16.25 |
| 22803 | 50.80 | 50.8 | 17.27 | \$27.30 |
| 22805 | 50.80 | 100.0 | 9.44 | \$27.30 |
| 22807 | 50.80 | 150.0 | 7.22 | \$26.00 |
| 22809 | 50.80 | 250.0 | 5.51 | \$26.00 |
| 22811 | 50.80 | 500.0 | 4.25 | \$26.00 |
| 22813 | 50.80 | 1000.0 | 3.62 | \$26.00 |
| 22903 | 76.20 | 100.0 | 18.05 | \$58.50 |
| 22905 | 76.20 | 200.0 | 10.00 | \$58.50 |
| 22907 | 76.20 | 1000.0 | 4.40 | \$58.50 |

Contact DDC TECHNOLOGIES for other size or focal length.

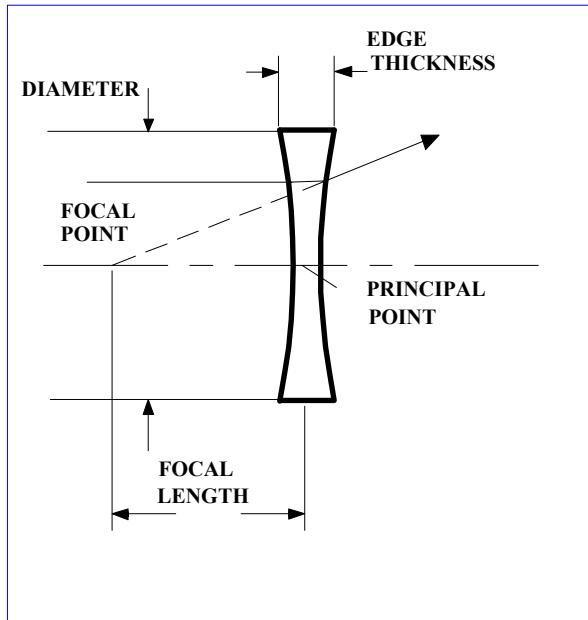


Fig. 32 Bi-concave Lens.

The application of bi-concave lenses is quiet analogous to plano concave lenses (see previous pages) but since every concave surface deliver its contribution to the lens power these kind of lenses can be made with the shorter focal lengthes.

The focal length is equal to the radius of curvature which is the same for the both sides of lens. In such case the focal length is believed the negative (see Fig. 32). In order to know the conditions for which the bi-concave lenses from borosilicate crown glass is better then fused silica ones see previous pages.

SPECIFICATIONS

| | |
|---------------------|---------------------|
| Material | BK7 |
| Surface quality | 40-20 scratch-dig |
| Optical aperture | 90% of the diameter |
| Diameter tolerance | +0.00, -0.12mm |
| Thickness tolerance | ± 0.2mm |
| Focal length | ± 1% |

| Model | Dia. (mm) | Focal Length (mm) | Edge Thickness (mm) | Price |
|-------|-----------|-------------------|---------------------|----------------|
| 23503 | 6.35 | -6.25 | 3.74 | \$15.60 |
| 23507 | 6.35 | -12.7 | 3.12 | \$15.60 |
| 23603 | 12.70 | -12.7 | 5.07 | \$16.25 |
| 23605 | 12.70 | -25.4 | 3.75 | \$11.70 |
| 23607 | 12.70 | -50.2 | 3.12 | \$11.70 |
| 23609 | 12.70 | -75.6 | 2.92 | \$11.70 |
| 23611 | 12.70 | -100.0 | 2.81 | \$11.70 |
| 23703 | 25.40 | -25.4 | 7.73 | \$19.50 |
| 23705 | 25.40 | -50.2 | 5.03 | \$14.30 |
| 23707 | 25.40 | -75.6 | 4.18 | \$14.30 |
| 23709 | 25.40 | -100.0 | 3.76 | \$14.30 |
| 23711 | 25.40 | -150.0 | 3.34 | \$14.30 |
| 23713 | 25.40 | -200.0 | 3.13 | \$13.65 |
| 23803 | 50.80 | -75.6 | 9.35 | \$32.50 |
| 23805 | 50.80 | -100.0 | 7.59 | \$29.90 |
| 23807 | 50.80 | -150.0 | 5.88 | \$29.90 |
| 23809 | 50.80 | -250.0 | 4.53 | \$29.90 |
| 23811 | 50.80 | -500.0 | 3.51 | \$29.90 |
| 23905 | 76.20 | -200.0 | 9.00 | \$63.70 |
| 23907 | 76.20 | -1000.0 | 3.85 | \$63.70 |

Contact DDC TECHNOLOGIES for other size or focal length.

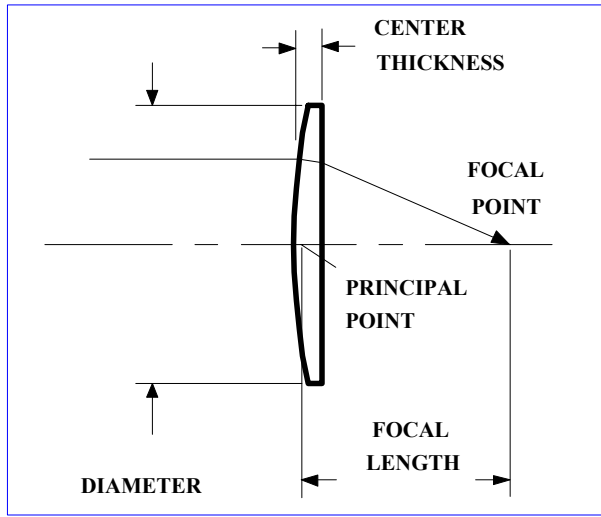


Fig. 33 Plano-convex Lens.

These plano convex lenses are made from the high quality fused silica. As the borosilicate crown glass lenses these lenses focus collimated light or collimate diverging light from a small sources with low spherical aberrations.

The material of lenses has good transmittance between 190 and 2500 nm. These lenses are useful for the applications which require the UV transmittance. Low coefficient of expansion and high thermal conductivity of these lenses helps to prevent breakage and thermal distortion.

SPECIFICATIONS

| | |
|---------------------|-----------------------|
| Material | UV grade fused silica |
| Surface quality | 40-20 scratch-dig |
| Optical aperture | 90% of the diameter |
| Diameter tolerance | +0.00, -0.12mm |
| Thickness tolerance | ± 0.2mm |
| Focal length | ± 1% |

| Model | Dia. (mm) | Focal Length (mm) | Center Thickness (mm) | Price |
|-------|-----------|-------------------|-----------------------|-----------------|
| 25007 | 6.35 | 12.7 | 3.94 | \$37.70 |
| 25009 | 6.35 | 25.4 | 3.44 | \$37.70 |
| 25011 | 6.35 | 50.2 | 3.22 | \$37.70 |
| 25013 | 6.35 | 75.6 | 3.14 | \$37.70 |
| 25015 | 6.35 | 100.0 | 3.11 | \$37.70 |
| 25103 | 12.70 | 25.4 | 4.88 | \$58.50 |
| 25105 | 12.70 | 50.2 | 3.89 | \$50.70 |
| 25107 | 12.70 | 75.6 | 3.59 | \$50.70 |
| 25109 | 12.70 | 100.0 | 3.44 | \$45.50 |
| 25111 | 12.70 | 150.0 | 3.29 | \$45.50 |
| 25113 | 12.70 | 250.0 | 3.18 | \$48.10 |
| 25205 | 25.40 | 50.2 | 6.82 | \$75.40 |
| 25207 | 25.40 | 75.6 | 5.41 | \$75.40 |
| 25209 | 25.40 | 100.0 | 4.79 | \$66.30 |
| 25211 | 25.40 | 150.0 | 4.18 | \$66.30 |
| 25213 | 25.40 | 200.0 | 3.88 | \$65.00 |
| 25215 | 25.40 | 250.0 | 3.71 | \$65.00 |
| 25217 | 25.40 | 300.0 | 3.59 | \$63.70 |
| 25219 | 25.40 | 500.0 | 3.35 | \$62.40 |
| 25221 | 25.40 | 1000.0 | 3.18 | \$62.40 |
| 25303 | 50.80 | 75.6 | 14.09 | \$205.40 |
| 25305 | 50.80 | 100.0 | 10.68 | \$202.80 |
| 25307 | 50.80 | 150.0 | 7.86 | \$188.50 |
| 25309 | 50.80 | 250.0 | 5.85 | \$175.50 |
| 25311 | 50.80 | 500.0 | 4.41 | \$141.70 |
| 25313 | 50.80 | 1000.0 | 3.70 | \$128.70 |
| 25403 | 76.20 | 100.0 | 23.35 | \$370.50 |
| 25405 | 76.20 | 200.0 | 11.29 | \$305.50 |
| 25407 | 76.20 | 300.0 | 8.38 | \$279.50 |
| 25409 | 76.20 | 1000.0 | 4.59 | \$258.70 |

Contact DDC TECHNOLOGIES for other size or focal length.



These plano concave lenses are made from the high quality fused silica. As for borosilicate crown glass lenses focal point for these lenses is the point of imaginary intersection of diverging light rays. Focal length in this case is believed negative and is twice the radius of curvature. Note, that for lowest spherical aberration curved surface must contact the parallel beam.

The material of lenses has good transmittance between 190 and 2500 nm. These lenses are useful for the applications which require the UV transmittance. Low coefficient of expansion and high thermal conductivity of these lenses helps to prevent breakage and thermal distortion.

SPECIFICATIONS

| | |
|---------------------|-----------------------|
| Material | UV grade fused silica |
| Surface quality | 40-20 scratch-dig |
| Optical aperture | 90% of the diameter |
| Diameter tolerance | +0.00, -0.12mm |
| Thickness tolerance | ± 0.2mm |
| Focal length (F) | ± 1% |

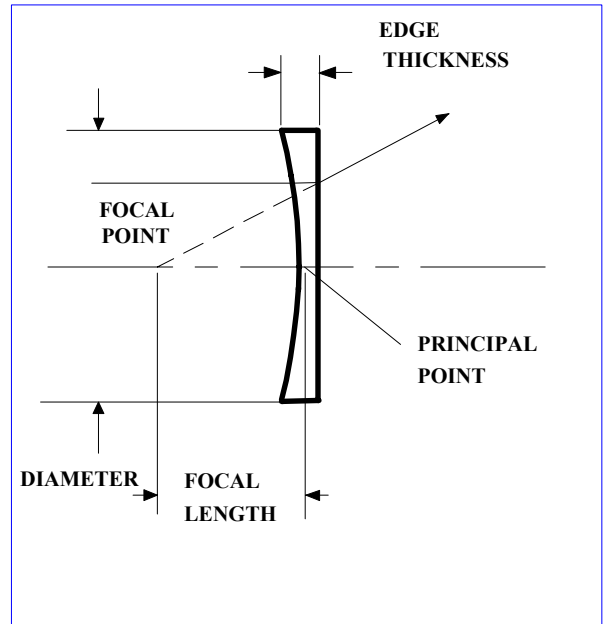


Fig. 35 Plano-concave Lens.

| Model | Dia. (mm) | Focal Length (mm) | Edge Thickness (mm) | Price |
|-------|-----------|-------------------|---------------------|----------|
| 26005 | 6.35 | -12.7 | 3.26 | \$55.90 |
| 26105 | 12.70 | -25.4 | 4.02 | \$55.90 |
| 26205 | 25.40 | -50.2 | 5.54 | \$67.60 |
| 26207 | 25.40 | -75.6 | 4.45 | \$65.00 |
| 26209 | 25.40 | -100.0 | 3.94 | \$65.00 |
| 26211 | 25.40 | -150.0 | 3.45 | \$63.70 |
| 26213 | 25.40 | -200.0 | 3.21 | \$63.70 |
| 26215 | 25.40 | -250.0 | 3.07 | \$63.70 |
| 26217 | 25.40 | -1000.0 | 2.64 | \$63.70 |
| 26305 | 50.80 | -100.0 | 8.59 | \$201.50 |
| 26307 | 50.80 | -150.0 | 6.40 | \$179.40 |
| 26309 | 50.80 | -250.0 | 4.80 | \$183.30 |
| 26311 | 50.80 | -500.0 | 3.64 | \$183.30 |
| 26313 | 50.80 | -1000.0 | 3.07 | \$188.50 |

Contact DDC TECHNOLOGIES for other size or focal length.

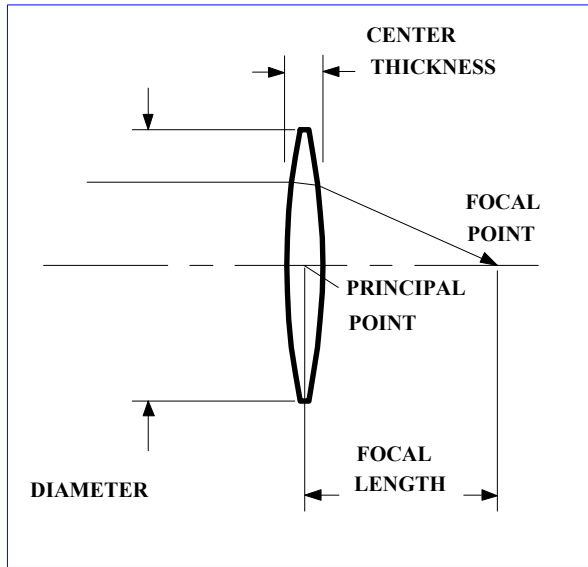


Fig. 36 Bi-convex Lens.

As the optical glass bi-convex lenses the fused silica ones are used for obtaining images at magnifications close to 1 and for beam focusing when the short focal length of the system is more critical than the image quality or spot size. The radii of curvature of both sides of such lenses are equal. It leads to low optical aberrations such as coma, distortion and chromatic aberrations when magnifications are in the range 0.2 - 5. Note, that the focal length of such lenses is equal to radius of curvature (see Fig 36). Lenses from such material (high optical quality fused silica) are useful for the applications which require the UV transmittance. Low coefficient of expansion and high thermal conductivity of these lenses helps to prevent breakage and thermal distortion.

SPECIFICATIONS

| | |
|---------------------|-----------------------|
| Material | UV grade fused silica |
| Surface quality | 40-20 scratch-dig |
| Optical aperture | 90% of the diameter |
| Diameter tolerance | +0.00, -0.12mm |
| Thickness tolerance | ± 0.2mm |
| Focal length | ± 1% |

| Model | Dia. (mm) | Focal Length (mm) | Center Thickness (mm) | Price |
|-------|-----------|-------------------|-----------------------|----------|
| 25505 | 6.35 | 6.4 | 5.41 | \$57.20 |
| 25507 | 6.35 | 12.7 | 3.93 | \$57.20 |
| 25509 | 6.35 | 25.4 | 3.44 | \$55.90 |
| 25511 | 6.35 | 50.2 | 3.22 | \$55.90 |
| 25601 | 12.70 | 12.70 | 6.76 | \$58.50 |
| 25603 | 12.70 | 25.4 | 4.82 | \$50.70 |
| 25605 | 12.70 | 50.2 | 3.83 | \$44.20 |
| 25607 | 12.70 | 100.0 | 3.44 | \$41.60 |
| 25609 | 12.70 | 250.0 | 3.18 | \$50.70 |
| 25703 | 25.40 | 25.4 | 11.36 | \$88.40 |
| 25705 | 25.40 | 50.2 | 6.65 | \$67.60 |
| 25707 | 25.40 | 75.6 | 5.37 | \$67.60 |
| 25709 | 25.40 | 100.0 | 4.78 | \$63.70 |
| 25711 | 25.40 | 200.0 | 3.88 | \$58.50 |
| 25713 | 25.40 | 500.0 | 3.35 | \$54.60 |
| 25715 | 25.40 | 1000.0 | 3.17 | \$54.60 |
| 25803 | 50.80 | 50.2 | 19.73 | \$227.50 |
| 25805 | 50.80 | 100.0 | 10.30 | \$197.60 |
| 25807 | 50.80 | 250.0 | 5.83 | \$188.50 |
| 25809 | 50.80 | 500.0 | 4.40 | \$184.60 |
| 25811 | 50.80 | 1000.0 | 3.70 | \$176.80 |
| 25903 | 76.20 | 100.0 | 20.24 | \$384.80 |
| 25905 | 76.20 | 200.0 | 11.19 | \$318.50 |
| 25907 | 76.20 | 1000.0 | 4.49 | \$286.00 |

Contact DDC TECHNOLOGIES for other size or focal length.



The application of bi-concave lenses is quiet analogous to plano concave lenses (see previous pages) but since every concave surface deliver its contribution to the lens power these kind of lenses can be made with the shorter focal lengthes.

The focal length is equal to the radius of curvature which is the same for the both sides of lens. In such case the focal length is believed the negative (see Fig. 38). In order to know the conditions for which the bi-concave lenses from fused silica is better then ones from borosilicate crown glass see previous pages.

SPECIFICATIONS

| | |
|---------------------|-----------------------|
| Material | UV grade fused silica |
| Surface quality | 40-20 scratch-dig |
| Optical aperture | 90% of the diameter |
| Diameter tolerance | +0.00, -0.12mm |
| Thickness tolerance | ± 0.2mm |
| Focal length | ± 1% |

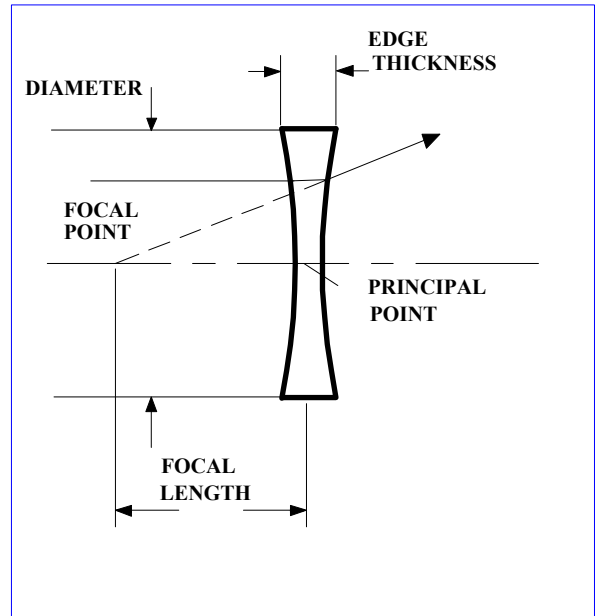


Fig. 38 Bi-concave Lens.

| Model | Dia. (mm) | Focal Length (mm) | Edge Thickness (mm) | Price |
|-------|-----------|-------------------|---------------------|-----------------|
| 26405 | 6.35 | -12.7 | 3.19 | \$61.10 |
| 26505 | 12.70 | -25.4 | 3.92 | \$61.10 |
| 26605 | 25.40 | -50.2 | 5.36 | \$88.40 |
| 26607 | 25.40 | -75.6 | 4.40 | \$68.90 |
| 26609 | 25.40 | -100.0 | 3.92 | \$68.90 |
| 26611 | 25.40 | -150.0 | 3.45 | \$71.50 |
| 26613 | 25.40 | -200.0 | 3.21 | \$71.50 |
| 26615 | 25.40 | -250.0 | 3.07 | \$76.70 |
| 26617 | 25.40 | -1000.0 | 2.64 | \$88.40 |
| 26705 | 50.80 | -100.0 | 8.25 | \$227.50 |
| 26707 | 50.80 | -150.0 | 6.31 | \$198.90 |
| 26709 | 50.80 | -250.0 | 4.77 | \$188.50 |
| 26711 | 50.80 | -500.0 | 3.64 | \$188.50 |
| 26713 | 50.80 | -1000.0 | 3.07 | \$188.50 |

Contact DDC TECHNOLOGIES for other size or focal length.

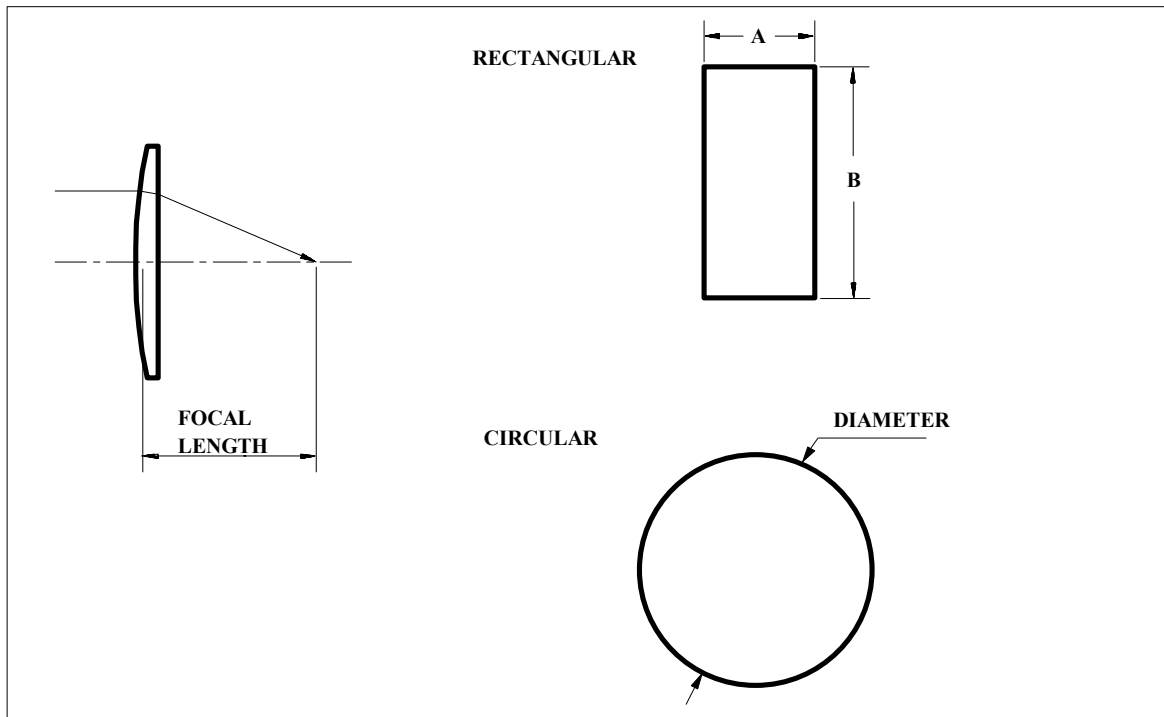


Fig. 39 Cylindrical Lenses.



Spherical lenses have equal magnification in any direction. Instead of that cylindrical lenses have magnification only in one plane. These lenses convert circular beam to elliptical and produce a line instead of spot focus. They also are useful in focusing onto monochromator slits or focusing onto linear detector arrays. We offer both rectangular and circular cylindrical lenses (see Fig. 39).

These cylindrical lenses are made from selected grade borosilicate crown glass and are high quality, low cost alternative to fused silica if UV transmittance is not required and thermal shock is not anticipated.

SPECIFICATIONS

| | |
|---------------------|-------------------|
| Material | BK7 |
| Surface quality | 40-20 scratch-dig |
| Dimension tolerance | +0.00, -0.2mm |
| Focal length | ± 2% |

OPTICAL GLASS POSITIVE CYLINDRICAL LENSES

RECTANGULAR

| Dimensions (mm) | | Focal Length (mm) | Model No | Price |
|-----------------|------|-------------------|----------|---------|
| A | B | | | |
| 19.1 | 25.4 | 25 | 29005 | \$58.50 |
| 25.4 | 50.8 | 50 | 29010 | \$91.00 |
| 25.4 | 50.8 | 75 | 29015 | \$91.00 |
| 25.4 | 50.8 | 100 | 29020 | \$91.00 |
| 25.4 | 50.8 | 150 | 29025 | \$91.00 |

CIRCULAR

| Diameter (mm) | Focal Length (mm) | Model No | Price |
|---------------|-------------------|----------|----------|
| 19.1 | 25 | 29205 | \$65.00 |
| 25.4 | 50 | 29210 | \$78.00 |
| 50.8 | 75 | 29215 | \$123.50 |
| 50.8 | 100 | 29220 | \$123.50 |
| 50.8 | 150 | 29225 | \$123.50 |

Contact DDC TECHNOLOGIES for other size or focal length.



**FUSED SILICA
POSITIVE CYLINDRICAL LENSES**

As the optical glass cylindrical lenses these lenses have magnification only in one plane, convert circular beam to elliptical and produce a line instead of spot focus.

These circular and rectangular cylindrical lenses are made from the UV grade optical quality fused silica with approximately 85% transmission at 190 nm, low coefficient of expansion and high thermal conductivity. That helps prevent breakage and thermal distortion.

SPECIFICATIONS

| | |
|---------------------|------------------------|
| Material | UV grade fused silica. |
| Surface quality | 40-20 scratch-dig |
| Dimension tolerance | +0.00, -0.2mm |
| Focal length | ± 2% |

RECTANGULAR

| Dimensions (mm) | | Focal Length (mm) | Model No | Price |
|-----------------|------|-------------------|----------|-----------------|
| A | B | | | |
| 19.1 | 25.4 | 25 | 29105 | \$136.50 |
| 25.4 | 50.8 | 50 | 29110 | \$227.50 |
| 25.4 | 50.8 | 75 | 29115 | \$223.60 |
| 25.4 | 50.8 | 100 | 29120 | \$223.60 |
| 25.4 | 50.8 | 150 | 29125 | \$223.60 |

CIRCULAR

| Diameter (mm) | Focal Length (mm) | Model No | Price |
|---------------|-------------------|----------|-----------------|
| 19.1 | 25 | 29305 | \$104.00 |
| 25.4 | 50 | 29310 | \$123.50 |
| 50.8 | 75 | 29315 | \$231.40 |
| 50.8 | 100 | 29320 | \$230.10 |
| 50.8 | 150 | 29325 | \$230.10 |

Contact DDC TECHNOLOGIES for other size or focal length.

