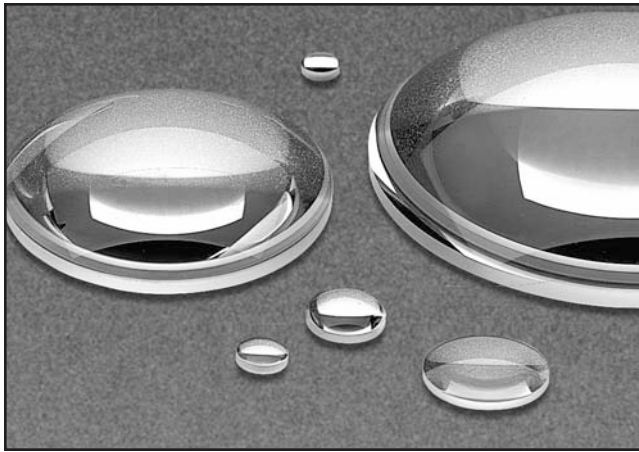


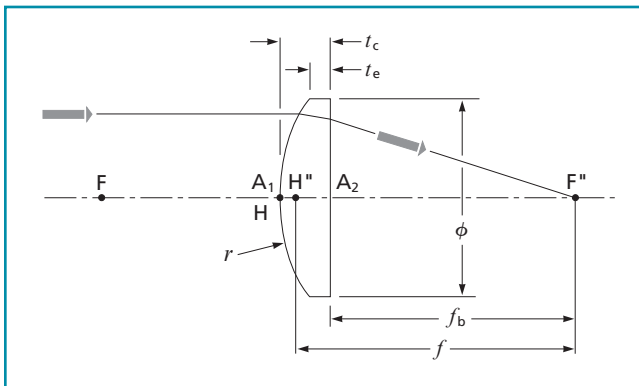
Plano-Convex Spherical Lenses

Standard Fused Silica Plano-Convex Lenses



Standard Fused Silica Plano-Convex Lenses

The LUP product with ~20 designs covers a wide range of focal lengths from 10 mm to 2 m. These standard quality plano-convex fused silica lenses are an economical alternative to laser grade lenses which are recommended for more demanding applications.



Plano-convex lens

SPECIFICATIONS:

Standard Fused Silica Plano-Convex Lenses

Optical Material	UV-grade fused silica
Clear Aperture (CA)	$\geq 90\%$ of central diameter
Surface Figure	$\lambda/4$ at 633 nm before coating
Surface Quality	40-20 scratch and dig
Diameter	$\phi + 0 / - 0.10$ mm
Center Thickness	$t_c \pm 0.2$ mm
Chamfer	0.05–0.20 mm at 45°
Centration	≤ 3 arc minutes
Paraxial Focal Length	$f \pm 1\%$
Design Wavelength	404.7 nm
Antireflection Coating	User Specified

(continued)

Plano-Convex Spherical Lenses

Standard Fused Silica Plano-Convex Lenses

Optical Coatings
Optical Materials

Windows

Prisms and
Retroreflectors

Spherical
Lenses

Cylindrical
Lenses

Multielement
Lenses

Mirrors

Beamsplitters

Waveplates

Polarization
Components

Femtosecond
Components

Filters
and Etalons

Appendix
Index

Standard Fused Silica Plano-Convex Lenses

f (mm)	ϕ (mm)	f/#	f_b (mm)	t_c (mm)	t_e (mm)	r (mm)	LENS PART NUMBER
10.0	6.3	1.8	8.0	3.0	1.8	4.7	LUP-6.3-4.7-UV
15.0	12.5	1.3	10.9	6.0	2.2	7.0	LUP-12.5-7.0-UV
20.0	12.5	1.8	16.6	5.0	2.6	9.4	LUP-12.5-9.4-UV
25.0	12.5	2.2	21.9	4.5	2.7	11.7	LUP-12.5-11.7-UV
30.0	12.5	2.7	27.3	4.0	2.5	14.1	LUP-12.5-14.1-UV
37.5	25.0	1.7	31.4	9.0	3.8	17.6	LUP-25.0-17.6-UV
40.0	12.5	3.6	37.6	3.5	2.4	18.8	LUP-12.5-18.8-UV
50.0	12.5	4.4	47.6	3.5	2.7	23.5	LUP-12.5-23.5-UV
50.0	25.0	2.2	45.2	7.0	3.4	23.5	LUP-25.0-23.5-UV
75.0	12.5	6.7	72.6	3.5	2.9	35.2	LUP-12.5-35.2-UV
75.0	25.0	3.3	70.9	6.0	3.7	35.2	LUP-25.0-35.2-UV
75.0	50.0	1.7	66.2	13.0	2.6	35.2	LUP-50.0-35.2-UV
100.0	12.5	8.9	97.6	3.5	3.1	47.0	LUP-12.5-47.0-UV
100.0	25.0	4.4	96.6	5.0	3.3	47.0	LUP-25.0-47.0-UV
100.0	50.0	2.2	92.5	11.0	3.8	47.0	LUP-50.0-47.0-UV
125.0	12.5	11.1	122.6	3.5	3.2	58.7	LUP-12.5-58.7-UV
125.0	25.0	5.6	121.6	5.0	3.7	58.7	LUP-25.0-58.7-UV
150.0	25.0	6.7	146.9	4.5	3.4	70.4	LUP-25.0-70.4-UV
150.0	50.0	3.3	143.9	9.0	4.4	70.4	LUP-50.0-70.4-UV
200.0	25.0	8.9	196.9	4.5	3.7	93.9	LUP-25.0-93.9-UV
200.0	50.0	4.4	193.9	9.0	5.6	93.9	LUP-50.0-93.9-UV
250.0	25.0	11.1	247.3	4.0	3.3	117.4	LUP-25.0-117.4-UV
250.0	50.0	5.6	243.9	9.0	6.3	117.4	LUP-50.0-117.4-UV
300.0	25.0	13.3	297.3	4.0	3.4	140.9	LUP-25.0-140.9-UV
300.0	50.0	6.7	293.9	9.0	6.8	140.9	LUP-50.0-140.9-UV
500.0	25.0	22.2	497.3	4.0	3.7	234.8	LUP-25.0-234.8-UV
1000.0	25.0	44.4	997.3	4.0	3.8	469.6	LUP-25.0-469.6-UV

Optional AR Coatings

Use the unique selection menu below to build your own part!

Build Your Own

LUP-12.5-11.7-UV — 355-532

Lens Part Number (from table)

Wavelength of AR Coating (nm); for Uncoated leave blank

248-355 355-532 1064