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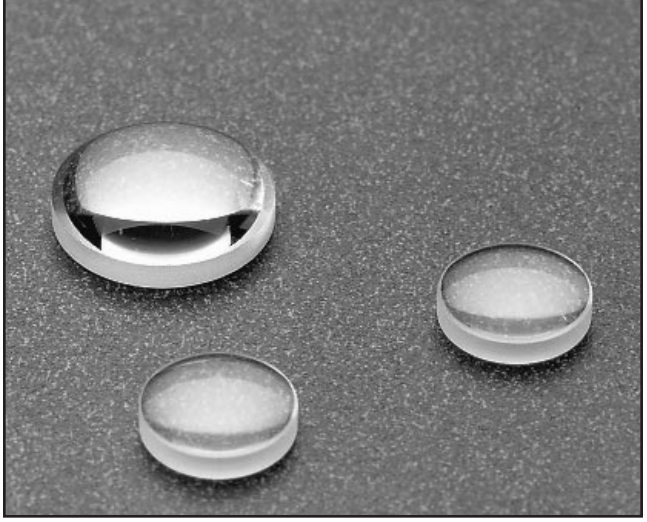
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Plano-Convex Glass Singlets

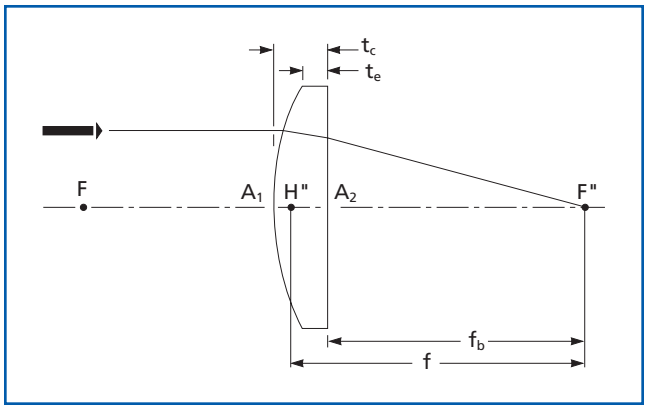
These diffraction-limited singlets have been optimized for focusing and collimation applications with diode lasers.

- They are optimized for use at near-infrared diode laser wavelengths.
- They are made from high-index Schott SF 11 glass.
- All lenses are available with an antireflection coating specifically designed for diode laser wavelengths. Simply append the appropriate coating suffix from the table at right to the part number.

SPECIFICATIONS: PLANO-CONVEX GLASS SINGLETS

Paraxial Focal Length: f ±2%
Design Wavelength: 830 nm
Wavelength Range: 670 –1550 nm
Refractive Index:
$n_{670} = 1.77456$, $n_{830} = 1.76312$, $n_{1300} = 1.74888$
Materials: Schott SF 11, grade A
Centration: 3 arc minutes
Diameter: ϕ ±0.25 mm
Clear Aperture: 90% of diameter
Center Thickness: t_c ±0.2 mm
Surface Quality: Pitch polished, 60–40 scratch and dig
Coating: Specified by suffix (*see table*)

The circumference is ground and the outside edges have a slight protective bevel (except diameters ≤5.0 mm).



06 LXP plano-convex glass singlets

Antireflection Coatings, Normal Incidence

Wavelength (nm)	Maximum Reflectance (%)	COATING SUFFIX
415–750	0.60	/078
780–830	0.25	/076
670	0.25	/128
1300	0.25	/168
1550	0.25	/169

Note: Call for availability.

Plano-Convex Glass Singlets

			at λ = 670 mm		at λ = 830 mm		at λ = 1300 mm		
ϕ (mm)	t_c (mm)	t_e (mm)	f (mm)	f_b (mm)	f (mm)	f_b (mm)	f (mm)	f_b (mm)	PRODUCT NUMBER
3.0	2.0	1.9	14.8	13.6	15.0	13.9	15.3	14.1	06 LXP 001
5.0	2.5	2.3	24.6	23.2	25.0	23.6	25.5	24.0	06 LXP 003
8.0	3.0	2.8	49.3	47.6	50.0	48.3	51.0	49.2	06 LXP 005
10.0	3.5	3.3	64.0	62.1	65.0	63.0	66.2	64.2	06 LXP 007
15.0	4.0	3.7	108.4	106.1	110.0	107.7	112.1	109.8	06 LXP 009

Notes: Supplied uncoated. For antireflection-coated lenses, append the coating suffix from the coatings option chart. Melles Griot can reduce (edge) diameters of all lenses to meet your requirements.
Melles Griot also offers the 01 LPX series of plano-convex glass lenses which range in focal length from 1 mm to1000 mm (see Chapter 6, Singlets).

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