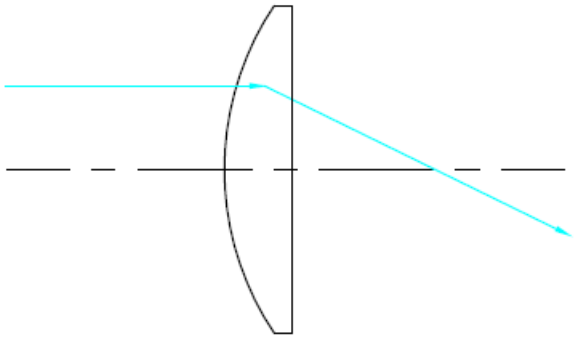
- Focal Lengths Available from 10.0mm to -2000.0 mm
- Focal Lengths Tolerance: ±1%
- Diameter: 3.0mm ~200.0mm
- Scratch & Dig: 80/50~20/10
- Spherical Surface Power: 5 Fringes~1 Fringes
- Spherical Surface Irregularity: λ/2~λ/8
- Center Error: 5arc min ~ 30 arc Sec



Plano-Convex Lenses have a positive focal length and near-best-form shape for infinite and finite conjugate applications. They can be employed to converge collimated beams or collimate light from a point source. To minimize the introduction of spherical aberration, a collimated light source should be incident on the curved surface of the lens when being focused and a point light source should be incident on the planar surface when being collimated.

The focal length of each lens can be calculated using a simplified thick lens equation:

$$f= R/(n-1),$$

where n is the index of refraction and R is the radius of curvature of the lens surface.

They can be also coated with MgF2 to protect the surface or AR coated to increase the transmission.