II-VI

Ball and Half Ball Lens

PRODUCT OVERVIEW

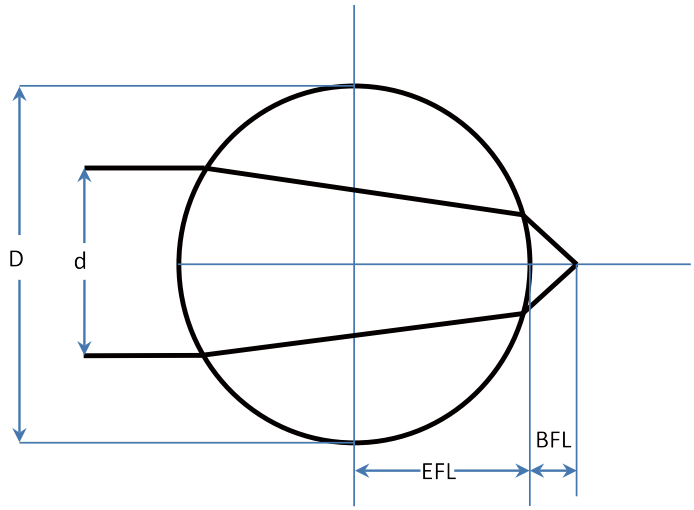
Ball lenses are highly polished spheres made of optically transparent homogeneous materials. A carefully controlled manufacturing process produces spheres with precise diameters and unsurpassed surface quality. Ball lenses are commonly used for laser collimating and focusing, laser-to-fiber coupling, fiber-to-fiber coupling, and fiber-to-detector coupling. Larger spheres are easier to handle and ease the sensitivity of translational alignment. Half-ball (hemispherical) lenses are ideal for applications such as fiber communications, endoscopy, microscopy, optical pickup devices, and laser measurement systems.

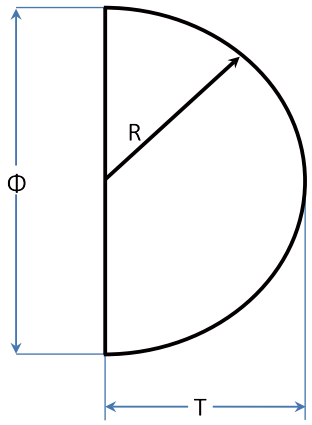
Ball and Half Ball Lens

Applications

- Laser coupling components
- G/E PON components
- Fiber optical communications systems
- Switches
- Laser measurement systems

Dimensions





Common specification

Material	N-Bk7
Typical Dimension	1, 2, 2.5, 3, 5mm
Dimension Tolerance	+/-0.002mm
Surface Quality (scratch/dig)	better than 60-40
Sphericity	0.6μm

Other sizes, diameters, and coatings are also available upon request.